

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 | NAPP2126045826 |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|--------------------------------|
| Responsible Party XTO Energy | OGRID 5380 |
| Contact Name Shelby Pennington | Contact Telephone 281-723-9353 |
| Contact email shelby.pennington@exxonmobil.com | Incident # (assigned by OCD) |
| Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707 | |

Location of Release Source

Latitude 32.20138 Longitude -103.88395
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|-----------------------------------|----------------------|
| Site Name PLU 293 | Site Type Flow Line |
| Date Release Discovered 9/05/2021 | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| J | 21 | 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)

| | | |
|--|--|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) 5.88 | Volume Recovered (bbls) 4.40 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 67.57 | Volume Recovered (bbls) 50.60 |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release The flowline failed due to corrosion, releasing fluids to ground. Vacuum trucks recovered all standing fluids. A third-party contractor has been retained for remediation activities.

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| <p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> | If YES, for what reason(s) does the responsible party consider this a major release? A release equal to or greater than 25 barrels. |
|--|--|

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Garrett Green to emily.hernandez@state.nm.us; Mike Bratcher; Victoria Venegas; Rob Hamlet; camorgan@blm.gov; blm_nm_cfo_spill@blm.gov on Monday, September 6, 2021 9:45 AM via email.

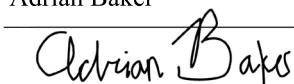
Initial Response

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

| |
|---|
| <p><input checked="" type="checkbox"/> The source of the release has been stopped.</p> <p><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.</p> <p><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</p> <p><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.</p> |
| 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: Adrian Baker | Title: SSHE Coordinator |
| Signature:  | Date: 9/17/21 |
| email: adrian.baker@exxonmobil.com | Telephone: 432-236-3808 |

OCD Only

Received by: Ramona Marcus Date: 9/20/2021

NAPP2126045826

| | | |
|--------------------|--------------------------|--|
| Location: | PLU 293 Flow Line | |
| Spill Date: | 9/5/2021 | |

Area 1

| | | |
|--|---------|---------|
| Approximate Area = | 4397.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 0.75 | inches |
| Average Porosity Factor = | 0.03 | |

VOLUME OF LEAK

| | | |
|------------------------|-------|------|
| Total Crude Oil = | 4.52 | bbls |
| Total Produced Water = | 51.95 | bbls |

Area 2

| | | |
|--|---------|---------|
| Approximate Area = | 1579.70 | sq. ft. |
| Average Saturation (or depth) of spill = | 3.62 | inches |

| | | |
|---------------------------|------|--|
| Average Porosity Factor = | 0.20 | |
|---------------------------|------|--|

VOLUME OF LEAK

| | | |
|------------------------|-------|------|
| Total Crude Oil = | 1.36 | bbls |
| Total Produced Water = | 15.62 | bbls |

TOTAL VOLUME OF LEAK

| | | |
|------------------------|-------|------|
| Total Crude Oil = | 5.88 | bbls |
| Total Produced Water = | 67.57 | bbls |

TOTAL VOLUME RECOVERED

| | | |
|------------------------|-------|------|
| Total Crude Oil = | 4.40 | bbls |
| Total Produced Water = | 50.60 | bbls |

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Site Assessment/Characterization

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

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | > 100 (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 02/02/2022

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

OCD Only

Received by: _____ Date: _____

| | |
|----------------|--|
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. *Delineation not feasible due to existing tank battery, lines, equipment, and containment above potential affected area*
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to 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: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 09/22/2022



Adrian Baker
 XTO Energy, Inc.
 6401 Holiday Hill Road, Bldg 5
 Midland, TX 79707
 432-236-3808
 Adrian.baker@exxonmobil.com

June 16, 2022

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

**Re: Delineation Work Plan
 PLU 293 Flow Line
 Incident Number NAPP2126045826
 Case Number 22700
 Eddy County, New Mexico**

To Whom it May Concern:

XTO Energy Inc. (XTO), has prepared the following Delineation Work Plan (Work Plan) as a followup to the Closure Request submitted on January 28, 2022 and in response to the April 15, 2022 pre-hearing meeting with the New Mexico Oil Conservation Division (NMOCD). This Work Plan is designed to delineate the horizontal extent of the impacted soil identified in the lease road at the Poker Lake Unit (PLU) 293 Flow Line (Site). The final reclamation activities will be completed upon abandonment of the road per Title 19, Chapter 15, Part 29, Section 13 (19.15.29.13) of the New Mexico Administrative Code (NMAC).

SUMMARY

The Site is located in Unit J, Section 21, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20138° N, 103.88395° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land. On September 5, 2021, a flow line failed due to corrosion, resulting in the release of 5.88 barrels (bbls) of crude oil and 67.57 bbls of produced water onto the well pad, lease road, and pasture area north of the pad (the "Site"). A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 4.4 bbls of crude oil and 50.6 bbls of produced water were recovered. XTO reported the release to the NMOCD via email on September 6, 2021 and submitted a Release Notification Form C-141 (Form C-141) on September 17, 2021. The release was assigned Incident Number NAPP2126045826. XTO completed remediation activities in response to the release and submitted a Closure Request to the NMOCD on January 28, 2022.

The Closure Request detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, of 19.15.29.12 NMAC. Based on the site characterization, the following Closure Criteria were applied to the release areas on the active well pad and lease road:

- 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

As part of the remediation, the pad was backfilled with locally procured caliche and the pasture was backfilled with local procured top soil. Additionally, reclamation standards of 600 mg/kg chloride and 100 mg/kg TPH were applied to the top four feet of the impacted pasture area, per 19.15.29.13.D (1) NMAC. The pasture has been backfilled with locally procured topsoil and recontoured to match site existing conditions. The pasture will be reseeded with a BLM approved seed mix and monitored for vegetation growth. Notifications to NMOCD are included in Appendix B.

XTO submitted a closure report for Incident Number NAPP2126045836 on February 8, 2022, NMOCD denied the Closure Request. XTO filed a hearing request (Case Number 22700) in response to the denial. As an alternative to a hearing, XTO and NMOCD agreed, among other things, to the following activity related to the impacted portion of the lease road:

- XTO agreed to vertically delineate the lease road within the existing horizontal delineation area at four feet below ground surface (bgs) to characterize the soil at four feet bgs.

PROPOSED DELINEATION WORK PLAN

To delineate the lease road, XTO plans to use Ensolum, LLC to complete the following delineation activities along the impacted portion of the lease road:

- Vertical delineation will be completed at five locations on the lease road. Potholes will be advanced via backhoe to a depth of 4 feet bgs at the locations of previously collected excavation confirmation floor samples FS15, FS16, FS17, FS29, and FS30. The proposed vertical delineation locations are shown on Figure 1.
- Discrete delineation samples will be collected from each pothole at a depth of 4 feet bgs to determine the content of the soil at 4 feet bgs. The delineation samples will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- Impacted soil identified in the relevant portion of the lease road will be addressed during final reclamation activities upon abandonment of the road, which shall be deemed to occur when all wells being accessed by this portion of the road have been plugged and abandoned.

Upon approval in the revised web portal of this delineation plan with respect to the road and well pad, XTO intends to complete the delineation activities within 90 days of the date of approval of this Delineation Work Plan by the NMOCD.

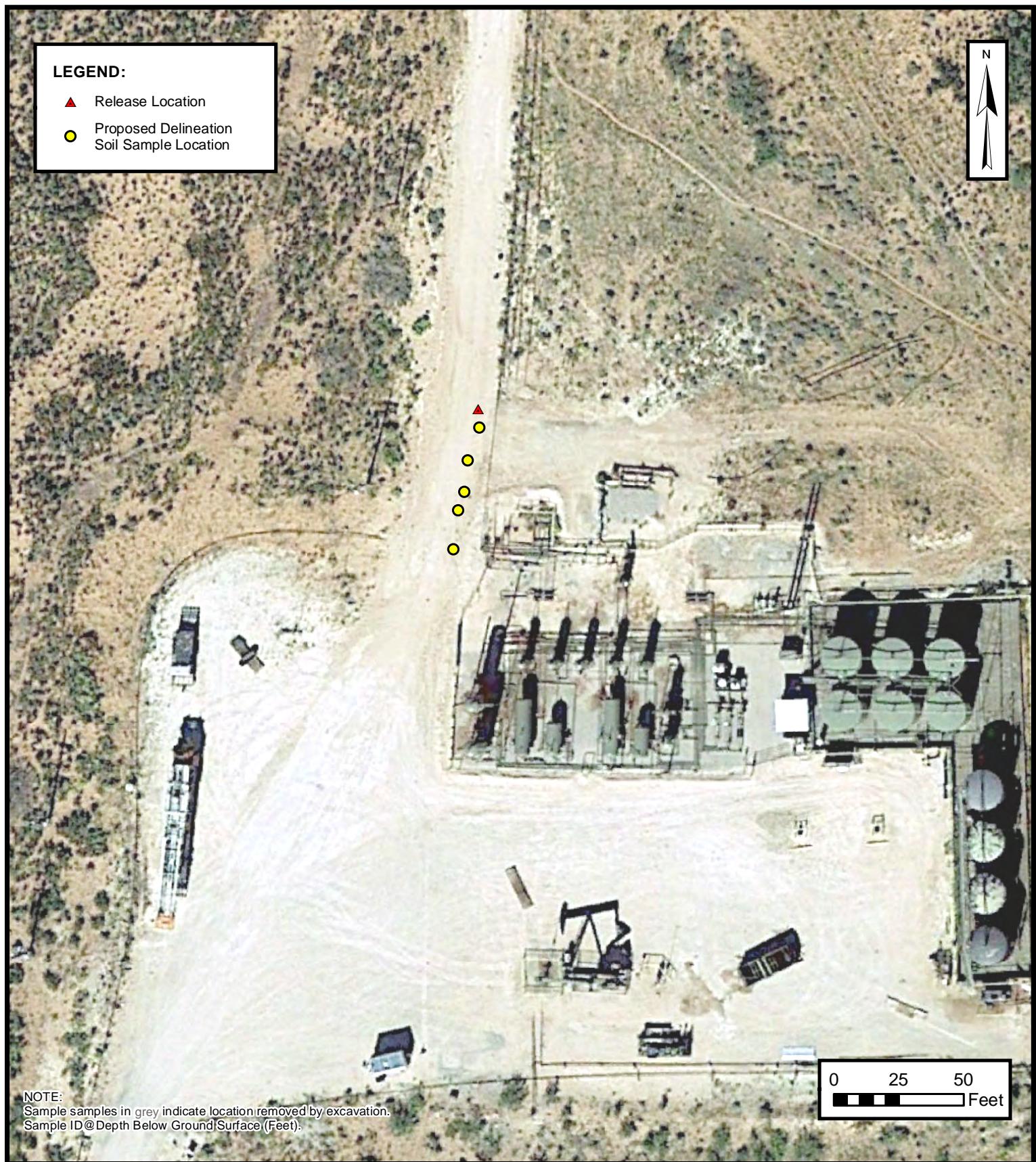
If you have any questions or comments, please contact Ms. Adrian Baker at (432) 236-3808 or adrian.baker@exxonmobil.com.

Respectfully,



Adrian Baker
Environmental Coordinator
XTO Energy, Incorporated
432-236-3808
adrian.baker@exxonmobil.com

Appendices:
Figure 1 Proposed Delineation Soil Sample Locations
Appendix A Closure Report



PROPOSED DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
PLU 293 FLOW LINE
NAPP2126045826
UNIT J SEC 21 T24S R30E
Eddy County, New Mexico

ENSOLUM
Environmental & Hydrogeologic Consultants

FIGURE
1



WSP USA

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

February 2, 2022

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

**RE: Closure Request
PLU 293 Flow Line
Incident Number NAPP2126045826
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 (PLU) 293 Flow Line (Site) in Unit J, Section 21, 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 the release of crude oil and produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2126045826.

RELEASE BACKGROUND

On September 5, 2021, a flow line failed due to corrosion, resulting in the release of 5.88 barrels (bbls) of crude oil and 67.57 bbls of produced water onto the well pad, pad entrance, and pasture area north of the pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 4.4 bbls of crude oil and 50.6 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on September 6, 2021 and submitted a Release Notification Form C-141 (Form C-141) on September 17, 2021. The release was assigned Incident Number NAPP2126045826.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 321214103525501, located approximately 0.2 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 339 feet bgs. The closest New Mexico Office of the State



Engineer (NMOSE) groundwater well is C-03960, located 0.3 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 250 feet bgs, the depth to water was most recently measured in November 2016. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is a dry wash, located approximately 578 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

Additionally, a reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the subsurface, 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 October 6, 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 six preliminary assessment soil samples (SS01 through SS06) within the release extent from a depth of 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) and are presented on Figure 2.



The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, and 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 SS05 and SS06 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Closure Criteria and/or the reclamation standard for samples collected from the top four feet of pasture areas. 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 SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On November 3, 2021, WSP personnel were at the Site to oversee delineation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Potholes PH01 through PH05 were advanced via backhoe to a depth of 4 feet bgs within the release extent, to assess the lateral and vertical extent of impacted soil. Delineation soil samples were collected from each pothole from depths ranging from 1-foot to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The potholes and delineation soil sample locations are presented on Figure 2. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

Laboratory analytical results for the delineation soil samples from potholes PH03, PH04, and PH05 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples collected from potholes PH01 and PH02 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Closure Criteria and/or the reclamation standards for samples collected from the top four feet of pasture areas.



EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Between November 10, 2021 and January 11, 2022, WSP personnel returned to the Site to oversee excavation activities based on field screening activities and laboratory analytical results for the preliminary and delineation soil samples.

Excavation activities were completed to remove the impacted soil identified in preliminary samples SS01 through SS04 and potholes PH01 and PH02. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 0.5 feet bgs (on the well pad) to 4 feet bgs (in the pasture). Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor and sidewalls 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 and FS14A were collected from the floor of the excavation from depths ranging from 0.5 feet to 4 feet bgs. Composite sidewall soil samples SW01 through SW10 were collected from the sidewalls of the deeper pasture excavation, from depths ranging from ground surface to 4 feet bgs. Sidewall samples were not collected from the shallow areas of the well pad excavation, floor samples collected from these areas were also representative of the sidewalls. The excavation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation samples FS01 through FS13, FS14A, FS15 through FS30, SW01 through SW05, and SW08 through SW10, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards for samples collected from the top four feet of pasture areas. Laboratory analytical results for samples FS14, SW06, and SW07, collected from the pasture excavation, indicated that TPH and/or chloride concentrations initially exceeded the reclamation standard. Additional soil was removed from these areas and subsequent floor sample FS14A and subsequent sidewall samples SW09 and SW10 were compliant. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

The final excavation extent measured approximately 5,980 square feet. A total of approximately 460 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After the completion of confirmation sampling, the excavation was secured with fencing.



District II
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CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 5, 2021 release of crude oil and produced water. Based on the laboratory analytical results for the preliminary and delineation soil samples, impacted soil was excavated. Laboratory analytical results for the 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 Site Closure Criteria. In addition, excavation soil samples collected from the top four feet of pasture areas were compliant with the reclamation standard.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on the excavation soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Following backfill, the disturbed pasture areas will be reseeded with a Bureau of Land Management (BLM) approved seed-mix. XTO respectfully requests NFA for Incident Number NAPP2126045826.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Hadlie Green".

Hadlie Green
Assistant Consultant, Geologist

A handwritten signature in black ink that reads "Aimee Cole".

Aimee Cole
Sr. Consultant, Environmental Scientist

cc: Shelby Pennington, XTO
 Adrian Baker, XTO
 Bureau of Land Management

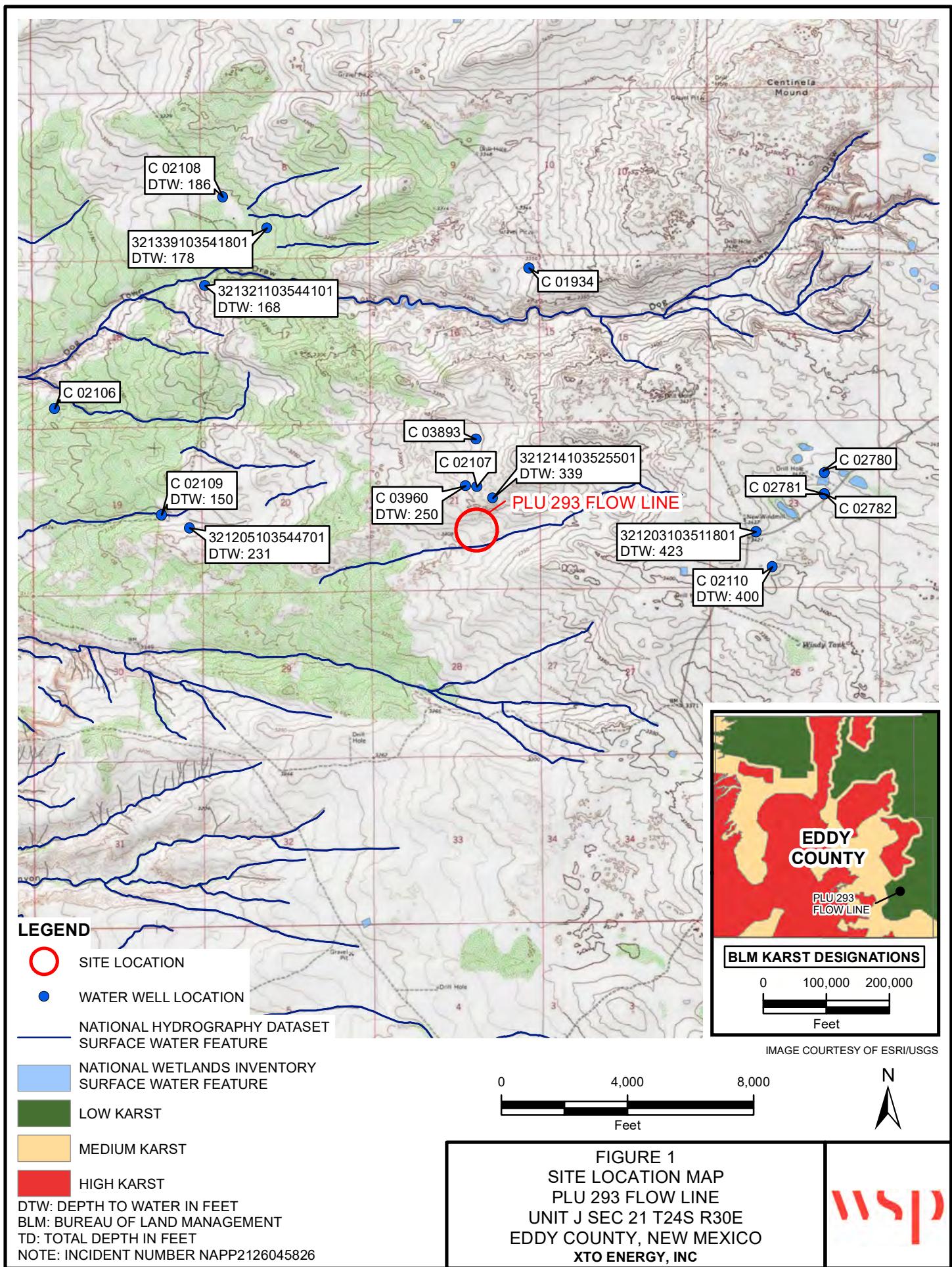


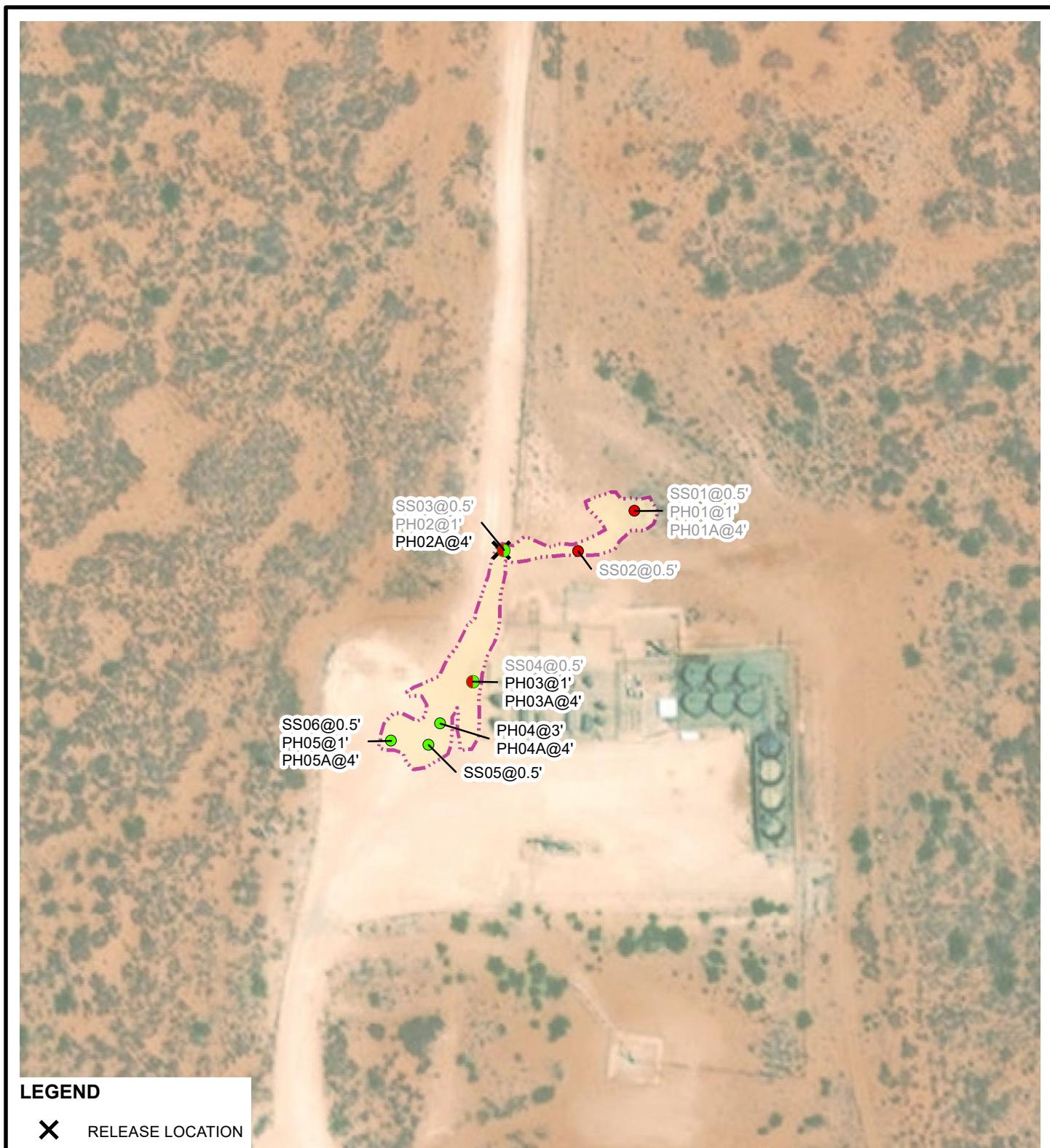
District II
Page 6

Attachments:

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

FIGURES



**LEGEND**

- X RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

■ RELEASE EXTENT

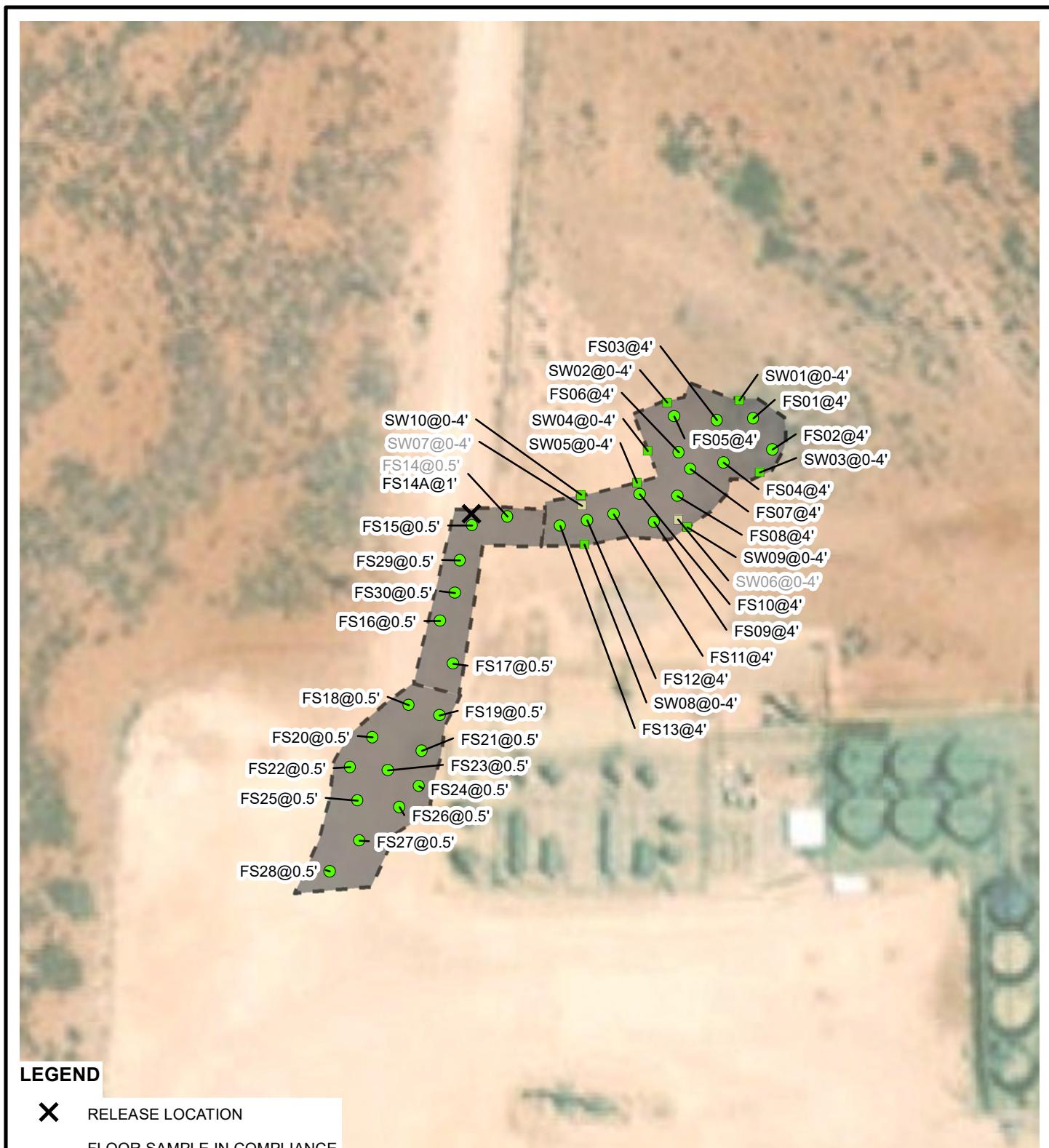
NOTE: INCIDENT NUMBER NAPP2126045826
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

0 100 200
Feet



FIGURE 2
SOIL SAMPLE LOCATIONS
PLU 293 FLOW LINE
UNIT J SEC 21 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

**LEGEND**

- X** RELEASE LOCATION
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

■ EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAPP2126045826
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

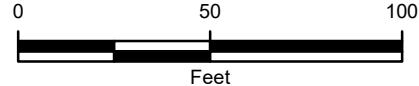


FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
PLU 293 FLOW LINE
UNIT J SEC 21 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1**Soil Analytical Results****PLU 293 Flow Line****Incident Number : NAPP2126045826****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 | 10/06/2021 | 0.5 | <0.0399 | 12.8 | 4,560 | 472 | 480 | 5,032 | 5,510 | 24,800* |
| SS02 | 10/06/2021 | 0.5 | <0.00201 | 0.0212 | 420 | <50.0 | 143 | 420 | 563 | 19,500* |
| SS03 | 10/06/2021 | 0.5 | <0.00201 | 0.00456 | 3,090 | <49.9 | 505 | 3,090 | 3,600 | 19,600 |
| SS04 | 10/06/2021 | 0.5 | <0.00200 | <0.00400 | 1,620 | <49.8 | 334 | 1,620 | 1,950 | 6,290 |
| SS05 | 10/06/2021 | 0.5 | <0.00200 | <0.00399 | 144 | <50.0 | 59.4 | 144 | 203 | 1,230 |
| SS06 | 10/06/2021 | 0.5 | <0.00200 | <0.00399 | 88.5 | <49.9 | <49.9 | 88.5 | 88.5 | 2,600 |
| Delineation Samples | | | | | | | | | | |
| PH01 | 11/03/2021 | 1 | <0.00200 | <0.00399 | 301 | <49.9 | <49.9 | 301 | 301 | 117* |
| PH01A | 11/03/2021 | 4 | <0.00199 | <0.00398 | 81.7 | <49.9 | <49.9 | 81.7 | 81.7 | 1760* |
| PH02 | 11/03/2021 | 1 | <0.00199 | <0.00398 | 2,450 | <50.0 | 278 | 2,450 | 2,730 | 14,500 |
| PH02A | 11/03/2021 | 4 | <0.00200 | <0.00399 | <50.0 | 476 | <50.0 | 476 | 476 | 276 |
| PH03 | 11/03/2021 | 1 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | 49.8 | <49.8 | 1,070 |
| PH03A | 11/03/2021 | 4 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | 50 | <50.0 | 133 |
| PH04 | 11/03/2021 | 3 | <0.00200 | <0.00400 | <49.8 | <49.8 | <49.8 | 49.8 | <49.8 | 2,390 |
| PH04A | 11/03/2021 | 4 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | 50 | <50.0 | 2,770 |
| PH05 | 11/03/2021 | 1 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 900 |
| PH05A | 11/03/2021 | 4 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 22.7 |
| Excavation Floor Samples | | | | | | | | | | |
| FS01 | 11/10/2021 | 4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | 50.0 | <50.0 | 104 |
| FS02 | 11/10/2021 | 4 | <0.00198 | <0.00397 | <50.0 | <50.0 | <50.0 | 50.0 | <50.0 | 636 |

Table 1**Soil Analytical Results****PLU 293 Flow Line****Incident Number : NAPP2126045826****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 |
| FS03 | 11/10/2021 | 4 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | 50.0 | <50.0 | 447 |
| FS04 | 11/10/2021 | 4 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 5,530 |
| FS05 | 11/10/2021 | 4 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | 49.8 | <49.8 | 858 |
| FS06 | 11/10/2021 | 4 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 76.0 |
| FS07 | 11/10/2021 | 4 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 149 |
| FS08 | 11/23/2021 | 4 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,330 |
| FS09 | 11/23/2021 | 4 | <0.00200 | <0.00401 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 103 |
| FS10 | 11/23/2021 | 4 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 290 |
| FS11 | 11/23/2021 | 4 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 351 |
| FS12 | 11/23/2021 | 4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 73.8 |
| FS13 | 11/23/2021 | 4 | <0.00198 | <0.00397 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 95.3 |
| FS14 | 11/22/2021 | 0.5 | <0.00200 | <0.00400 | 121 | <49.9 | <49.9 | 121 | 121 | 671 |
| FS14A | 01/05/2022 | 1 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 34.1 |
| FS15 | 11/22/2021 | 0.5 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,560 |
| FS16 | 11/22/2021 | 0.5 | <0.00200 | <0.00399 | 69.8 | <50.0 | <50.0 | 69.8 | 69.8 | 991 |
| FS17 | 11/22/2021 | 0.5 | <0.00198 | <0.00396 | 55.8 | <49.9 | <49.9 | 55.8 | 55.8 | 1,500 |
| FS18 | 11/23/2021 | 0.5 | <0.00199 | <0.00398 | 60.9 | <50.0 | <50.0 | 60.9 | 60.9 | 3,460 |
| FS19 | 11/23/2021 | 0.5 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 972 |
| FS20 | 11/23/2021 | 0.5 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,230 |

Table 1**Soil Analytical Results****PLU 293 Flow Line****Incident Number : NAPP2126045826****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 |
| FS21 | 11/23/2021 | 0.5 | <0.00200 | <0.00401 | 53.9 | <49.9 | <49.9 | 53.9 | 53.9 | 1,040 |
| FS22 | 11/23/2021 | 0.5 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 345 |
| FS23 | 11/23/2021 | 0.5 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 788 |
| FS24 | 11/23/2021 | 0.5 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 616 |
| FS25 | 11/23/2021 | 0.5 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,120 |
| FS26 | 11/23/2021 | 0.5 | <0.00202 | <0.00403 | 60.6 | <50.0 | <50.0 | 60.6 | 60.6 | 1,470 |
| FS27 | 11/23/2021 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,070 |
| FS28 | 11/23/2021 | 0.5 | <0.00201 | <0.00402 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 157 |
| FS29 | 01/05/2022 | 0.5 | <0.00200 | <0.00401 | 91.7 | <50.0 | <50.0 | 91.7 | 91.7 | 2,220 |
| FS30 | 01/05/2022 | 0.5 | <0.00198 | <0.00396 | 99.9 | <50.0 | <50.0 | 99.9 | 99.9 | 1,270 |
| Excavation Sidewall Samples | | | | | | | | | | |
| SW01 | 11/04/2021 | 0-4 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | 50.0 | <50.0 | 70.1* |
| SW02 | 11/04/2021 | 0-4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | 50.0 | <50.0 | 40.1* |
| SW03 | 11/04/2021 | 0-4 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 57.9* |

Table 1

Soil Analytical Results
PLU 293 Flow Line
Incident Number : NAPP2126045826
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 |
| SW04 | 11/04/2021 | 0-4 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 53.6* |
| SW05 | 11/05/2021 | 0-4 | <0.00199 | <0.00398 | <49.8 | <49.8 | <49.8 | 49.8 | <49.8 | 86* |
| SW06 | 01/05/2022 | 0-3 | <0.00201 | <0.00402 | 91.2 | <49.9 | <49.9 | 91.2 | 91.2 | 1,160* |
| SW07 | 01/05/2022 | 0-3 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 618* |
| SW08 | 11/05/2021 | 0-4 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | 49.9 | <49.9 | 514* |
| SW09 | 01/11/2022 | 0-4 | <0.00200 | <0.00399 | 61.9 | <50.0 | <50.0 | 61.9 | 61.9 | 220* |
| SW10 | 01/11/2022 | 0-4 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 375* |

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Greyed data represents samples that were excavated

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

ATTACHMENT 1: REFERENCED WELL RECORDS

USGS 321214103525501 24S.30E.21.23144

[Available data for this site](#)[SUMMARY OF ALL AVAILABLE DATA](#) ▾[GO](#)

Well Site

DESCRIPTION:

Latitude 32°12'14", Longitude 103°52'55" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 3,371 feet above NAVD88.

Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer.

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

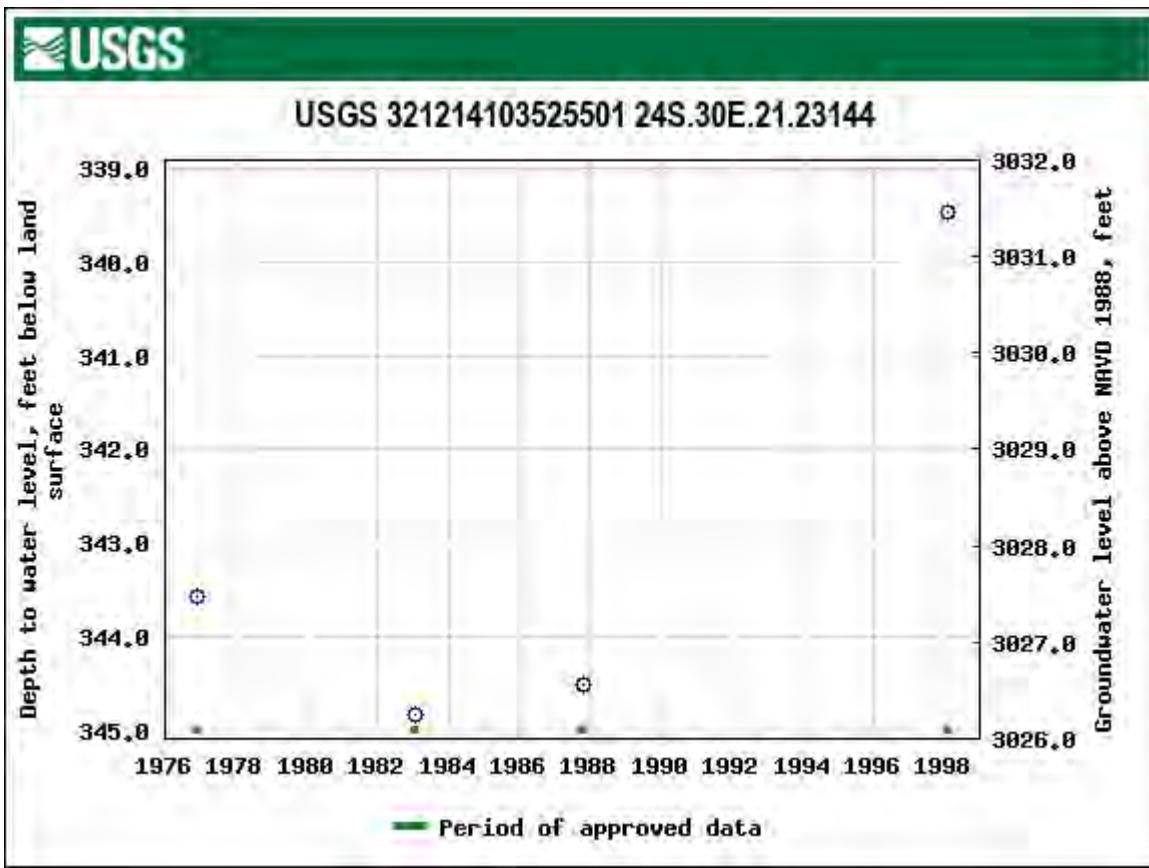
AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|--|-------------------------------------|------------|-------|
| Field groundwater-level measurements | 1976-12-01 | 1998-01-28 | 4 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|----------|------------|-----|-----|----|-----|-----|-----|--------|---------|
| C | 03960 POD1 | 1 | 3 | 2 | 21 | 24S | 30E | 605062 | 3563712 |



x Driller License: 1753 Driller Company: VANGUARD WATER WELLS

Driller Name: JACOBO FRIESSEN

Drill Start Date: 11/12/2016 Drill Finish Date: 11/12/2016 Plug Date:

Log File Date: 11/17/2016 PCW Rcv Date: Source: Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 6.00 Depth Well: 475 feet Depth Water: 250 feet

| Water Bearing Stratifications: | Top | Bottom | Description |
|--------------------------------|-----|--------|-------------------------------|
| | 182 | 250 | Sandstone/Gravel/Conglomerate |
| | 402 | 460 | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
| | 250 | 290 |
| | 395 | 435 |

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

10/6/21 8:32 AM

POINT OF DIVERSION SUMMARY

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOGS

|  <p style="text-align: center;">WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p> | | | | | | | | BH or PH Name: PH01 | Date: 11/02/2021 |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|----------------|------------------|---|------------------|
| | | | | | | | | Site Name: PLU 293 Flow Line | |
| | | | | | | | | RP or Incident Number: NAPP2126045826 | |
| | | | | | | | | WSP Job Number: 31403236.020.0129 | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: TC | Method: Backhoe |
| Lat/Long: 32.2020762, -103.8834508 | | | | Field Screening: Chloride, PID | | | | Hole Diameter: 2'x2' | Total Depth: 4' |
| Comments: | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks | |
| M | 201.6 | 419.3 | Y | PH01 | - | 0 | SPSC | DARK BROWN-REDDISH SAND, STAINING, STRONG ODOR, MOIST | |
| M | 313.6 | 70.5 | Y | | - | 1 | SPSC | | |
| M | 274.4 | 195.4 | Y | | - | 2 | SPSC | | |
| M | 2,128 | 202.4 | Y | PH01A | - | 3 | SPSC | | |
| | | | | | - | 4 | SP | LIGHT BROWN-REDDISH, SOME CALICHE, MOIST, STRONG ODOR | |
| | | | | | - | 4 | TD @ 4 ft bgs | | |

|  <p style="text-align: center;">WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p> | | | | | | | | BH or PH Name: PH02 | Date: 11/02/2021 | | | | | | |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|----------------|------------------|---|------------------|--|--|--|--|--|--|
| | | | | | | | | Site Name: PLU 293 Flow Line | | | | | | | |
| | | | | | | | | RP or Incident Number: NAPP2126045826 | | | | | | | |
| | | | | | | | | WSP Job Number: 31403236.020.0129 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: TC | Method: Backhoe | | | | | | |
| Lat/Long: 32.2020010, -103.8837535 | | | | Field Screening: Chloride, PID | | | | Hole Diameter: 2'x2' | Total Depth: 4' | | | | | | |
| Comments: | | | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks | | | | | | | |
| M | 7,380.8 | 48.9 | Y | PH02 | 1 | 0 | SPSC | CALICHE, TAN, MOIST, SAND, REDDISH-BROWN, STAINING, STRONG ODOR | | | | | | | |
| M | 2,609.6 | 11.2 | Y | | | 1 | SPSC | | | | | | | | |
| M | 1,736 | 4.4 | N | | | 2 | SPSC | | | | | | | | |
| M | 274.4 | 1.7 | N | PH02A | 4 | 3 | SP | CALICHE, TAN, MOIST, REDDISH-BROWN SAND, NO STAINING, SLIGHT ODOR | | | | | | | |
| TD @ 4 ft bgs | | | | | | | | | | | | | | | |

|  <p style="text-align: center;">WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p> | | | | | | | | BH or PH Name: PH03 | Date: 11/02/2021 | | | | | | |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|----------------|------------------|---|------------------|--|--|--|--|--|--|
| | | | | | | | | Site Name: PLU 293 Flow Line | | | | | | | |
| | | | | | | | | RP or Incident Number: NAPP2126045826 | | | | | | | |
| | | | | | | | | WSP Job Number: 31403236.020.0129 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: TC | Method: Backhoe | | | | | | |
| Lat/Long: 32.2017426, -103.8838265 | | | | Field Screening: Chloride, PID | | | | Hole Diameter: 2'x2' | Total Depth: 4' | | | | | | |
| Comments: | | | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks | | | | | | | |
| M | 1,859.2 | 0.2 | Y | PH03 | 1 | 0 | SPSC | SAND WITH CALICHE, BROWN-REDDISH, MOST, STAINING, SLIGHT ODOR | | | | | | | |
| M | 274.4 | 0.0 | N | | 1 | 1 | SPSC | SAA | | | | | | | |
| M | 235.2 | 0.0 | N | | 2 | 2 | SPSC | SAA | | | | | | | |
| M | 235.2 | 0.0 | N | PH03A | 3 | 3 | SPSC | SAA | | | | | | | |
| M | 235.2 | 0.0 | N | | 4 | 4 | SPSC | SAA | | | | | | | |
| TD @ 4 ft bgs | | | | | | | | | | | | | | | |

|  <p style="text-align: center;">WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p> | | | | | | | | BH or PH Name: PH04 | Date: 11/02/2021 | | | | | | |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|----------------|------------------|---|------------------|--|--|--|--|--|--|
| | | | | | | | | Site Name: PLU 293 Flow Line | | | | | | | |
| | | | | | | | | RP or Incident Number: NAPP2126045826 | | | | | | | |
| | | | | | | | | WSP Job Number: 31403236.020.0129 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: TC | Method: Backhoe | | | | | | |
| Lat/Long: 32.2016606, -103.8839019 | | | | Field Screening: Chloride, PID | | | | Hole Diameter: 2'x2' | Total Depth: 4' | | | | | | |
| Comments: | | | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks | | | | | | | |
| M | 576.8 | 0.1 | Y | PH04 | - | 0 | SPSC | CALICHE SAND MIX, BROWN-REDDISH, MOIST, STAINING, NO ODOR | | | | | | | |
| M | 1,736 | 0.0 | N | | - | 1 | SPSC | SAA | | | | | | | |
| M | 2,996 | 0.0 | N | | - | 2 | SPSC | SAA | | | | | | | |
| M | 2,279.2 | 0.0 | N | PH04A | - | 3 | SPSC | | | | | | | | |
| | | | | | - | 4 | SC | CALICHE SAND MIX, BROWN, MOIST, NO STAINING, NO ODOR | | | | | | | |
| TD @ 4 ft bgs | | | | | | | | | | | | | | | |

|  <p style="text-align: center;">WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p> | | | | | | | | BH or PH Name: PH05 | Date: 11/02/2021 | |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|----------------|------------------|---|------------------|--|
| | | | | | | | | Site Name: PLU 293 Flow Line | | |
| | | | | | | | | RP or Incident Number: NAPP2126045826 | | |
| | | | | | | | | WSP Job Number: 31403236.020.0129 | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: TC | Method: Backhoe | |
| Lat/Long: 32.2016264, -103.8840159 | | | | Field Screening: Chloride, PID | | | | Hole Diameter: 2'x2' | Total Depth: 4' | |
| Comments: | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks | | |
| M | 6,285.6 | 0.2 | Y | PH05 | 1 | 0 | SPSC | CALICHE SAND MIX, BROWN-REDDISH, MOIST, STAINING, NO ODOR | | |
| M | ND | 0.0 | N | | 1 | 1 | SPSC | SAA | | |
| M | ND | 0.0 | N | | 2 | 2 | SPSC | SAA | | |
| M | ND | 0.0 | N | PH05A | 3 | 3 | SPSC | | | |
| M | ND | 0.0 | N | | 4 | 4 | SC | CALICHE SAND MIX, BROWN, MOIST, NO STAINING, NO ODOR | | |
| TD @ 4 ft bgs | | | | | | | | | | |

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

| | | |
|------------------|--------------------------------------|----------------|
| XTO Energy, Inc. | PLU 293 Flow Line Eddy County, NM | NAPP2126045826 |
|------------------|--------------------------------------|----------------|





PHOTOGRAPHIC LOG

| | | |
|------------------|--------------------------------------|----------------|
| XTO Energy, Inc. | PLU 293 Flow Line Eddy County, NM | NAPP2126045826 |
|------------------|--------------------------------------|----------------|

| | | |
|----------------|------------------------------|--|
| Photo No. 3 | Date November 23, 2021 |  A photograph showing a dirt road leading into a large, excavated area. The ground is uneven and shows signs of heavy machinery use. In the background, there are utility poles and a fence line under a clear sky. |
|----------------|------------------------------|--|

| | | |
|----------------|------------------------------|--|
| Photo No. 4 | Date November 23, 2021 |  A photograph of a deep, rectangular excavation pit. The walls of the pit are rough and layered soil. In the background, there is a dry, open landscape with some sparse vegetation and utility pipes visible. |
|----------------|------------------------------|--|



PHOTOGRAPHIC LOG

| | | |
|------------------|--------------------------------------|----------------|
| XTO Energy, Inc. | PLU 293 Flow Line Eddy County, NM | NAPP2126045826 |
|------------------|--------------------------------------|----------------|

| | | |
|--|------------------------------|---|
| Photo No. 5 | Date November 23, 2021 |  |
| View facing east of the excavation extent. | | |

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing
America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-1378-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: PLU 293

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:
10/14/2021 8:02:23 PM

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

LINKS

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results through

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The
Expert

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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 293

Laboratory Job ID: 890-1378-1
SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

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 |
|-----------|--|
| 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. |

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 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Job ID: 890-1378-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1378-1

Receipt

The samples were received on 10/7/2021 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-9114 recovered above the upper control limit for < o-Xylene>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-9114/95), (LCS 880-8855/1-A), (LCSD 880-8855/2-A), (MB 880-8855/5-A), (880-6763-A-1-C), (880-6763-A-1-A MS) and (880-6763-A-1-B MSD).

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-1378-1). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9371 and analytical batch 880-9354 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS01
Date Collected: 10/06/21 15:02
Date Received: 10/07/21 11:05
Sample Depth: 0.5

Lab Sample ID: 890-1378-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.0399 | U | 0.0399 | mg/Kg | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| Toluene | 0.458 | | 0.0399 | mg/Kg | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| Ethylbenzene | 1.92 | | 0.0399 | mg/Kg | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| m-Xylene & p-Xylene | 7.01 | | 0.0798 | mg/Kg | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| o-Xylene | 3.42 | | 0.0399 | mg/Kg | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| Xylenes, Total | 10.4 | | 0.0798 | mg/Kg | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 226 | S1+ | 70 - 130 | | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |
| 1,4-Difluorobenzene (Surr) | 72 | | 70 - 130 | | | 10/08/21 11:00 | 10/13/21 16:07 | 20 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-------------|-----------|--------|-------|---|----------|----------------|---------|
| Total BTEX | 12.8 | | 0.0798 | mg/Kg | | | 10/13/21 13:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-------------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 5510 | | 49.9 | mg/Kg | | | 10/11/21 13:34 | 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 | 472 | | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:16 | 1 |
| Diesel Range Organics (Over C10-C28) | 4560 | | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:16 | 1 |
| Oil Range Organics (Over C28-C36) | 480 | | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 131 | S1+ | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 02:16 | 1 |
| o-Terphenyl | 124 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 02:16 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 24800 | | 249 | mg/Kg | | | 10/14/21 10:44 | 50 |

Client Sample ID: SS02
Date Collected: 10/06/21 15:10
Date Received: 10/07/21 11:05
Sample Depth: 0.5

Lab Sample ID: 890-1378-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/13/21 19:11 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/13/21 19:11 | 1 |
| Ethylbenzene | 0.00238 | | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/13/21 19:11 | 1 |
| m-Xylene & p-Xylene | 0.0136 | | 0.00402 | mg/Kg | | 10/08/21 11:00 | 10/13/21 19:11 | 1 |
| o-Xylene | 0.00526 | | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/13/21 19:11 | 1 |
| Xylenes, Total | 0.0189 | | 0.00402 | mg/Kg | | 10/08/21 11:00 | 10/13/21 19:11 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS02**Lab Sample ID: 890-1378-2**

Matrix: Solid

Date Collected: 10/06/21 15:10
Date Received: 10/07/21 11:05
Sample Depth: 0.5

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | 10/08/21 11:00 | 10/13/21 19:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | 10/08/21 11:00 | 10/13/21 19:11 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.0212 | | 0.00402 | mg/Kg | | | 10/11/21 15:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 563 | | 50.0 | mg/Kg | | | 10/11/21 13:34 | 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 | <50.0 | U | 50.0 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:37 | 1 |
| Diesel Range Organics (Over C10-C28) | 420 | | 50.0 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:37 | 1 |
| Oil Range Organics (Over C28-C36) | 143 | | 50.0 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:37 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98 | | 70 - 130 | 10/13/21 11:33 | 10/14/21 02:37 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | 10/13/21 11:33 | 10/14/21 02:37 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 19500 | | 99.6 | mg/Kg | | | 10/14/21 10:50 | 20 |

Client Sample ID: SS03**Lab Sample ID: 890-1378-3**

Matrix: Solid

Date Collected: 10/06/21 15:20
Date Received: 10/07/21 11:05
Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:06 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:06 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:06 | 1 |
| m-Xylene & p-Xylene | 0.00456 | | 0.00402 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:06 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:06 | 1 |
| Xylenes, Total | 0.00456 | | 0.00402 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 224 | S1+ | 70 - 130 | 10/08/21 11:00 | 10/10/21 21:06 | 1 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | 10/08/21 11:00 | 10/10/21 21:06 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.00456 | | 0.00402 | mg/Kg | | | 10/11/21 15:20 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS03
Date Collected: 10/06/21 15:20
Date Received: 10/07/21 11:05
Sample Depth: 0.5

Lab Sample ID: 890-1378-3
Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 3600 | | 49.9 | mg/Kg | | | 10/11/21 13:34 | 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 | | 10/13/21 11:33 | 10/14/21 02:57 | 1 |
| Diesel Range Organics (Over C10-C28) | 3090 | | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:57 | 1 |
| Oil Range Organics (Over C28-C36) | 505 | | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 02:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 02:57 | 1 |
| o-Terphenyl | 132 | S1+ | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 02:57 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 19600 | | 99.4 | mg/Kg | | | 10/14/21 10:57 | 20 |

Client Sample ID: SS04**Lab Sample ID: 890-1378-4**

Matrix: Solid

Date Collected: 10/06/21 15:35

Date Received: 10/07/21 11:05

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 | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 188 | S1+ | 70 - 130 | | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 10/08/21 11:00 | 10/10/21 21:33 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 10/11/21 15:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 1950 | | 49.8 | mg/Kg | | | 10/11/21 13:34 | 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 | <49.8 | U | 49.8 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:17 | 1 |
| Diesel Range Organics (Over C10-C28) | 1620 | | 49.8 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:17 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS04
Date Collected: 10/06/21 15:35
Date Received: 10/07/21 11:05
Sample Depth: 0.5

Lab Sample ID: 890-1378-4
Matrix: Solid

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Oil Range Organics (Over C28-C36) | 334 | | 49.8 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 115 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 03:17 | 1 |
| <i>o-Terphenyl</i> | 120 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 03:17 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6290 | | 49.9 | mg/Kg | | | 10/14/21 11:03 | 10 |

Client Sample ID: SS05**Lab Sample ID: 890-1378-5**

Matrix: Solid

Date Collected: 10/06/21 15:40

Date Received: 10/07/21 11:05

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 | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| <i>o-Xylene</i> | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 202 | S1+ | 70 - 130 | | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 10/08/21 11:00 | 10/10/21 21:59 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 10/11/21 15:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 203 | | 50.0 | mg/Kg | | | 10/13/21 14:23 | 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 | | 10/13/21 11:33 | 10/14/21 03:37 | 1 |
| Diesel Range Organics (Over C10-C28) | 144 | | 50.0 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:37 | 1 |
| Oil Range Organics (Over C28-C36) | 59.4 | | 50.0 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 113 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 03:37 | 1 |
| <i>o-Terphenyl</i> | 118 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 03:37 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS05
Date Collected: 10/06/21 15:40
Date Received: 10/07/21 11:05
Sample Depth: 0.5

Lab Sample ID: 890-1378-5
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1230 | | 5.00 | mg/Kg | | | 10/14/21 11:09 | 1 |

Client Sample ID: SS06
Date Collected: 10/06/21 15:50
Date Received: 10/07/21 11:05
Sample Depth: 0.5

Lab Sample ID: 890-1378-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 188 | S1+ | 70 - 130 | | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 116 | | 70 - 130 | | | 10/08/21 11:00 | 10/10/21 22:25 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 10/11/21 15:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 88.5 | | 49.9 | mg/Kg | | | 10/13/21 14:23 | 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 | | 10/13/21 11:33 | 10/14/21 03:57 | 1 |
| Diesel Range Organics (Over C10-C28) | 88.5 | | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:57 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 10/13/21 11:33 | 10/14/21 03:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 03:57 | 1 |
| <i>o-Terphenyl</i> | 113 | | 70 - 130 | | | 10/13/21 11:33 | 10/14/21 03:57 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2600 | | 25.2 | mg/Kg | | | 10/14/21 10:17 | 5 |

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

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) | | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|--|
| 880-6763-A-1-A MS | Matrix Spike | 177 S1+ | 118 | | | | | | | | | | |
| 880-6763-A-1-B MSD | Matrix Spike Duplicate | 170 S1+ | 123 | | | | | | | | | | |
| 890-1374-A-1-G MSD | Matrix Spike Duplicate | 113 | 81 | | | | | | | | | | |
| 890-1374-A-1-I MS | Matrix Spike | 121 | 85 | | | | | | | | | | |
| 890-1378-1 | SS01 | 226 S1+ | 72 | | | | | | | | | | |
| 890-1378-2 | SS02 | 116 | 78 | | | | | | | | | | |
| 890-1378-3 | SS03 | 224 S1+ | 77 | | | | | | | | | | |
| 890-1378-4 | SS04 | 188 S1+ | 99 | | | | | | | | | | |
| 890-1378-5 | SS05 | 202 S1+ | 107 | | | | | | | | | | |
| 890-1378-6 | SS06 | 188 S1+ | 116 | | | | | | | | | | |
| LCS 880-8855/1-A | Lab Control Sample | 139 S1+ | 102 | | | | | | | | | | |
| LCS 880-9327/1-A | Lab Control Sample | 112 | 85 | | | | | | | | | | |
| LCSD 880-8855/2-A | Lab Control Sample Dup | 134 S1+ | 103 | | | | | | | | | | |
| LCSD 880-9327/2-A | Lab Control Sample Dup | 118 | 83 | | | | | | | | | | |
| MB 880-8855/5-A | Method Blank | 98 | 101 | | | | | | | | | | |
| MB 880-8911/5-A | Method Blank | 93 | 102 | | | | | | | | | | |
| MB 880-9327/5-A | Method Blank | 110 | 71 | | | | | | | | | | |

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) | | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|--|
| 890-1370-A-1-E MS | Matrix Spike | 115 | 115 | | | | | | | | | | |
| 890-1370-A-1-F MSD | Matrix Spike Duplicate | 112 | 111 | | | | | | | | | | |
| 890-1378-1 | SS01 | 131 S1+ | 124 | | | | | | | | | | |
| 890-1378-2 | SS02 | 98 | 107 | | | | | | | | | | |
| 890-1378-3 | SS03 | 122 | 132 S1+ | | | | | | | | | | |
| 890-1378-4 | SS04 | 115 | 120 | | | | | | | | | | |
| 890-1378-5 | SS05 | 113 | 118 | | | | | | | | | | |
| 890-1378-6 | SS06 | 104 | 113 | | | | | | | | | | |
| LCS 880-9371/2-A | Lab Control Sample | 81 | 82 | | | | | | | | | | |
| LCSD 880-9371/3-A | Lab Control Sample Dup | 86 | 86 | | | | | | | | | | |
| MB 880-9371/1-A | Method Blank | 107 | 123 | | | | | | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-8855/5-A****Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 8855**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|----------|----------------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |

Lab Sample ID: LCS 880-8855/1-A**Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 8855**

| Analyte | Spikes | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec. |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------------|----------|----------------|--------|-------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.1069 | | mg/Kg | 107 | 70 - 130 | | | | |
| Toluene | 0.100 | 0.1069 | | mg/Kg | 107 | 70 - 130 | | | | |
| Ethylbenzene | 0.100 | 0.1073 | | mg/Kg | 107 | 70 - 130 | | | | |
| m-Xylene & p-Xylene | 0.200 | 0.2318 | | mg/Kg | 116 | 70 - 130 | | | | |
| o-Xylene | 0.100 | 0.1180 | | mg/Kg | 118 | 70 - 130 | | | | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 139 | S1+ | 70 - 130 | | | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 |

Lab Sample ID: LCSD 880-8855/2-A**Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 8855**

| Analyte | Spikes | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------------|----------|----------------|--------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.1068 | | mg/Kg | 107 | 70 - 130 | | 0 | 35 | | |
| Toluene | 0.100 | 0.1114 | | mg/Kg | 111 | 70 - 130 | | 4 | 35 | | |
| Ethylbenzene | 0.100 | 0.1094 | | mg/Kg | 109 | 70 - 130 | | 2 | 35 | | |
| m-Xylene & p-Xylene | 0.200 | 0.2374 | | mg/Kg | 119 | 70 - 130 | | 2 | 35 | | |
| o-Xylene | 0.100 | 0.1228 | | mg/Kg | 123 | 70 - 130 | | 4 | 35 | | |
| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 134 | S1+ | 70 - 130 | | | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 10/05/21 11:00 | | 10/10/21 12:22 | | 1 | |

Lab Sample ID: 880-6763-A-1-A MS**Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 8855**

| Analyte | Sample | Sample | Spikes | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|--------|---------|-----------|--------|-----------|----------|---|------|--------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00201 | U | 0.100 | 0.07600 | | mg/Kg | 76 | 70 - 130 | | | |
| Toluene | <0.00201 | U | 0.100 | 0.08137 | | mg/Kg | 81 | 70 - 130 | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 880-6763-A-1-A MS****Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 8855**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.08309 | | mg/Kg | | 83 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.201 | 0.1800 | | mg/Kg | | 90 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.100 | 0.09335 | | mg/Kg | | 93 | 70 - 130 |

MS MS

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 177 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 |

Lab Sample ID: 880-6763-A-1-B MSD**Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 8855**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00201 | U | 0.101 | 0.08379 | | mg/Kg | | 83 | 70 - 130 |
| Toluene | <0.00201 | U | 0.101 | 0.08569 | | mg/Kg | | 85 | 70 - 130 |
| Ethylbenzene | <0.00201 | U | 0.101 | 0.09140 | | mg/Kg | | 91 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.202 | 0.1982 | | mg/Kg | | 98 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.101 | 0.1018 | | mg/Kg | | 101 | 70 - 130 |

MSD MSD

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 170 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 123 | | 70 - 130 |

Lab Sample ID: MB 880-8911/5-A**Matrix: Solid****Analysis Batch: 9114****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 8911**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/05/21 11:12 | 10/09/21 22:46 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/05/21 11:12 | 10/09/21 22:46 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/05/21 11:12 | 10/09/21 22:46 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 10/05/21 11:12 | 10/09/21 22:46 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/05/21 11:12 | 10/09/21 22:46 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 10/05/21 11:12 | 10/09/21 22:46 | 1 |

MB MB

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | 10/05/21 11:12 | 10/09/21 22:46 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 10/05/21 11:12 | 10/09/21 22:46 | 1 |

Lab Sample ID: MB 880-9327/5-A**Matrix: Solid****Analysis Batch: 9368****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 9327**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/12/21 16:16 | 10/13/21 12:41 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 10/12/21 16:16 | 10/13/21 12:41 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 10/12/21 16:16 | 10/13/21 12:41 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 10/12/21 16:16 | 10/13/21 12:41 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: MB 880-9327/5-A****Matrix: Solid****Analysis Batch: 9368****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 9327**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 10/12/21 16:16 | 10/13/21 12:41 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 10/12/21 16:16 | 10/13/21 12:41 | 1 |
| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | 10/12/21 16:16 | 10/13/21 12:41 | 1 | | |
| 1,4-Difluorobenzene (Surr) | 71 | | 70 - 130 | 10/12/21 16:16 | 10/13/21 12:41 | 1 | | |

Lab Sample ID: LCS 880-9327/1-A**Matrix: Solid****Analysis Batch: 9368****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 9327**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec. | Limits | |
|-----------------------------|-----------|-----------|-----------|-------|---|-------|----------|--|
| | Added | Result | Qualifier | | | %Rec | | |
| Benzene | 0.100 | 0.08846 | | mg/Kg | | 88 | 70 - 130 | |
| Toluene | 0.100 | 0.08931 | | mg/Kg | | 89 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09418 | | mg/Kg | | 94 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1960 | | mg/Kg | | 98 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09808 | | mg/Kg | | 98 | 70 - 130 | |
| Surrogate | LCS | LCS | Limits | | | | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-9327/2-A**Matrix: Solid****Analysis Batch: 9368****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 9327**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec. | RPD | Limit |
|-----------------------------|-----------|-----------|-----------|-------|---|-------|----------|-------|
| | Added | Result | Qualifier | | | %Rec | | |
| Benzene | 0.100 | 0.09373 | | mg/Kg | | 94 | 70 - 130 | 6 35 |
| Toluene | 0.100 | 0.09698 | | mg/Kg | | 97 | 70 - 130 | 8 35 |
| Ethylbenzene | 0.100 | 0.1013 | | mg/Kg | | 101 | 70 - 130 | 7 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2116 | | mg/Kg | | 106 | 70 - 130 | 8 35 |
| o-Xylene | 0.100 | 0.1068 | | mg/Kg | | 107 | 70 - 130 | 8 35 |
| Surrogate | LCSD | LCSD | Limits | | | | | |
| | %Recovery | Qualifier | | | | | | |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | | | | | |

Lab Sample ID: 890-1374-A-1-G MSD**Matrix: Solid****Analysis Batch: 9368****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 9327**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec. | RPD | Limit |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|-------|----------|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | %Rec | | |
| Benzene | <0.00198 | U | 0.0990 | 0.09429 | | mg/Kg | | 95 | 70 - 130 | 11 35 |
| Toluene | <0.00198 | U | 0.0990 | 0.09461 | | mg/Kg | | 96 | 70 - 130 | 6 35 |
| Ethylbenzene | <0.00198 | U | 0.0990 | 0.09854 | | mg/Kg | | 100 | 70 - 130 | 0 35 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.198 | 0.2040 | | mg/Kg | | 103 | 70 - 130 | 1 35 |
| o-Xylene | <0.00198 | U | 0.0990 | 0.1031 | | mg/Kg | | 104 | 70 - 130 | 1 35 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

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

Lab Sample ID: 890-1374-A-1-G MSD

Matrix: Solid

Analysis Batch: 9368

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9327

| Surrogate | MSD | MSD | %Recovery | Qualifier | Limits |
|-----------------------------|-----|-----|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 113 | | | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 81 | | | | 70 - 130 |

Lab Sample ID: 890-1374-A-1-I MS

Matrix: Solid

Analysis Batch: 9368

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9327

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|-----|----------|--------|
| Benzene | <0.00198 | U | 0.100 | 0.08471 | | mg/Kg | 84 | 70 - 130 | |
| Toluene | <0.00198 | U | 0.100 | 0.08921 | | mg/Kg | 89 | 70 - 130 | |
| Ethylbenzene | <0.00198 | U | 0.100 | 0.09814 | | mg/Kg | 98 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00396 | U | 0.201 | 0.2025 | | mg/Kg | 101 | 70 - 130 | |
| o-Xylene | <0.00198 | U | 0.100 | 0.1018 | | mg/Kg | 101 | 70 - 130 | |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 85 | | 70 - 130 |

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

Lab Sample ID: MB 880-9371/1-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9371

| 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 | 10/13/21 11:33 | 10/13/21 20:52 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 10/13/21 11:33 | 10/13/21 20:52 | | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 10/13/21 11:33 | 10/13/21 20:52 | | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107 | | 70 - 130 | 10/13/21 11:33 | 10/13/21 20:52 | 1 |
| o-Terphenyl | 123 | | 70 - 130 | 10/13/21 11:33 | 10/13/21 20:52 | 1 |

Lab Sample ID: LCS 880-9371/2-A

Matrix: Solid

Analysis Batch: 9354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9371

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|--------------------------------------|-------------|------------|---------------|-------|-----|----------|--------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1243 | | mg/Kg | 124 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 848.4 | | mg/Kg | 85 | 70 - 130 | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 81 | | 70 - 130 |
| o-Terphenyl | 82 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCSD 880-9371/3-A****Matrix: Solid****Analysis Batch: 9354****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 9371**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1252 | | mg/Kg | | 125 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 831.2 | | mg/Kg | | 83 | 70 - 130 | 2 | 20 |

Surrogate

| | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|----------------|----------------|----------------|-------------|
| 1-Chlorooctane | 86 | | 70 - 130 |
| o-Terphenyl | 86 | | 70 - 130 |

Lab Sample ID: 890-1370-A-1-E MS**Matrix: Solid****Analysis Batch: 9354****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 9371**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 | 997 | 1402 | F1 | mg/Kg | | 141 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1076 | | mg/Kg | | 106 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|----------------|--------------|--------------|-----------|
| 1-Chlorooctane | 115 | | 70 - 130 |
| o-Terphenyl | 115 | | 70 - 130 |

Lab Sample ID: 890-1370-A-1-F MSD**Matrix: Solid****Analysis Batch: 9354****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 9371**

| 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 | <49.9 | U F1 | 1000 | 1334 | F1 | mg/Kg | | 133 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 1000 | 1043 | | mg/Kg | | 103 | 70 - 130 | 3 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|----------------|---------------|---------------|------------|
| 1-Chlorooctane | 112 | | 70 - 130 |
| o-Terphenyl | 111 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-9286/1-A****Matrix: Solid****Analysis Batch: 9432****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 | | | 10/14/21 08:08 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: LCS 880-9286/2-A****Matrix: Solid****Analysis Batch: 9432****Client Sample ID: Lab Control Sample**
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | Limits | 5 |
|----------|-------------|------------|---------------|-------|---|------|-------|----------|---|
| Chloride | 250 | 254.5 | | mg/Kg | | 102 | | 90 - 110 | 6 |

Lab Sample ID: LCSD 880-9286/3-A**Matrix: Solid****Analysis Batch: 9432****Client Sample ID: Lab Control Sample Dup**
Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD | 8 |
|----------|-------------|-------------|----------------|-------|---|------|-------|----------|---|
| Chloride | 250 | 255.5 | | mg/Kg | | 102 | | 90 - 110 | 9 |

Lab Sample ID: 880-7049-A-11-B MS**Matrix: Solid****Analysis Batch: 9432****Client Sample ID: Matrix Spike**
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | 10 |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----|
| Chloride | 791 | | 2520 | 3557 | | mg/Kg | | 110 | 11 |

Lab Sample ID: 880-7049-A-11-C MSD**Matrix: Solid****Analysis Batch: 9432****Client Sample ID: Matrix Spike Duplicate**
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | 12 |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|----|
| Chloride | 791 | | 2520 | 3546 | | mg/Kg | | 109 | 13 |

Lab Sample ID: MB 880-9287/1-A**Matrix: Solid****Analysis Batch: 9434****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 | | | 10/14/21 08:19 | 1 |

Lab Sample ID: LCS 880-9287/2-A**Matrix: Solid****Analysis Batch: 9434****Client Sample ID: Lab Control Sample**
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | 9 |
|----------|-------------|------------|---------------|-------|---|------|----------|----|
| Chloride | 250 | 242.9 | | mg/Kg | | 97 | 90 - 110 | 10 |

Lab Sample ID: LCSD 880-9287/3-A**Matrix: Solid****Analysis Batch: 9434****Client Sample ID: Lab Control Sample Dup**
Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | RPD | Limit |
|----------|-------------|-------------|----------------|-------|---|------|----------|-------|
| Chloride | 250 | 244.2 | | mg/Kg | | 98 | 90 - 110 | 1 |

Lab Sample ID: 880-7032-A-1-B MS**Matrix: Solid****Analysis Batch: 9434****Client Sample ID: Matrix Spike**
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | 10 |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----|
| Chloride | 1730 | | 1240 | 3034 | | mg/Kg | | 105 | 11 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-7032-A-1-C MSD

Matrix: Solid

Analysis Batch: 9434

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|-----|----------|--------|-----|-----------|
| Chloride | 1730 | | 1240 | 3045 | | mg/Kg | 106 | 90 - 110 | 0 | 20 | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

GC VOA**Prep Batch: 8855**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1378-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-1378-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-1378-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-1378-4 | SS04 | Total/NA | Solid | 5035 | |
| 890-1378-5 | SS05 | Total/NA | Solid | 5035 | |
| 890-1378-6 | SS06 | Total/NA | Solid | 5035 | |
| MB 880-8855/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-8855/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-8855/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-6763-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-6763-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 8911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-8911/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 9114

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1378-3 | SS03 | Total/NA | Solid | 8021B | 8855 |
| 890-1378-4 | SS04 | Total/NA | Solid | 8021B | 8855 |
| 890-1378-5 | SS05 | Total/NA | Solid | 8021B | 8855 |
| 890-1378-6 | SS06 | Total/NA | Solid | 8021B | 8855 |
| MB 880-8855/5-A | Method Blank | Total/NA | Solid | 8021B | 8855 |
| MB 880-8911/5-A | Method Blank | Total/NA | Solid | 8021B | 8911 |
| LCS 880-8855/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 8855 |
| LCSD 880-8855/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 8855 |
| 880-6763-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 8855 |
| 880-6763-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 8855 |

Analysis Batch: 9242

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1378-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-1378-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-1378-4 | SS04 | Total/NA | Solid | Total BTEX | |
| 890-1378-5 | SS05 | Total/NA | Solid | Total BTEX | |
| 890-1378-6 | SS06 | Total/NA | Solid | Total BTEX | |

Prep Batch: 9327

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-9327/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-9327/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-9327/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1374-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |
| 890-1374-A-1-I MS | Matrix Spike | Total/NA | Solid | 5035 | |

Analysis Batch: 9368

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 890-1378-1 | SS01 | Total/NA | Solid | 8021B | 8855 |
| 890-1378-2 | SS02 | Total/NA | Solid | 8021B | 8855 |
| MB 880-9327/5-A | Method Blank | Total/NA | Solid | 8021B | 9327 |
| LCS 880-9327/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 9327 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

GC VOA (Continued)**Analysis Batch: 9368 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCSD 880-9327/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 9327 |
| 890-1374-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 9327 |
| 890-1374-A-1-I MS | Matrix Spike | Total/NA | Solid | 8021B | 9327 |

Analysis Batch: 9374

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1378-1 | SS01 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 9189**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1378-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-1378-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-1378-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-1378-4 | SS04 | Total/NA | Solid | 8015 NM | |

Analysis Batch: 9354

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1378-1 | SS01 | Total/NA | Solid | 8015B NM | 9371 |
| 890-1378-2 | SS02 | Total/NA | Solid | 8015B NM | 9371 |
| 890-1378-3 | SS03 | Total/NA | Solid | 8015B NM | 9371 |
| 890-1378-4 | SS04 | Total/NA | Solid | 8015B NM | 9371 |
| 890-1378-5 | SS05 | Total/NA | Solid | 8015B NM | 9371 |
| 890-1378-6 | SS06 | Total/NA | Solid | 8015B NM | 9371 |
| MB 880-9371/1-A | Method Blank | Total/NA | Solid | 8015B NM | 9371 |
| LCS 880-9371/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 9371 |
| LCSD 880-9371/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 9371 |
| 890-1370-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 9371 |
| 890-1370-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 9371 |

Prep Batch: 9371

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1378-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1378-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-1378-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-1378-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| 890-1378-5 | SS05 | Total/NA | Solid | 8015NM Prep | |
| 890-1378-6 | SS06 | Total/NA | Solid | 8015NM Prep | |
| MB 880-9371/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-9371/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-9371/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1370-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1370-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 9387

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1378-5 | SS05 | Total/NA | Solid | 8015 NM | |
| 890-1378-6 | SS06 | Total/NA | Solid | 8015 NM | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

HPLC/IC**Leach Batch: 9286**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1378-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-1378-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-1378-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-1378-4 | SS04 | Soluble | Solid | DI Leach | |
| 890-1378-5 | SS05 | Soluble | Solid | DI Leach | |
| MB 880-9286/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-9286/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-9286/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-7049-A-11-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-7049-A-11-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 9287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1378-6 | SS06 | Soluble | Solid | DI Leach | |
| MB 880-9287/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-9287/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-9287/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-7032-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-7032-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 9432

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1378-1 | SS01 | Soluble | Solid | 300.0 | 9286 |
| 890-1378-2 | SS02 | Soluble | Solid | 300.0 | 9286 |
| 890-1378-3 | SS03 | Soluble | Solid | 300.0 | 9286 |
| 890-1378-4 | SS04 | Soluble | Solid | 300.0 | 9286 |
| 890-1378-5 | SS05 | Soluble | Solid | 300.0 | 9286 |
| MB 880-9286/1-A | Method Blank | Soluble | Solid | 300.0 | 9286 |
| LCS 880-9286/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 9286 |
| LCSD 880-9286/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 9286 |
| 880-7049-A-11-B MS | Matrix Spike | Soluble | Solid | 300.0 | 9286 |
| 880-7049-A-11-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 9286 |

Analysis Batch: 9434

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1378-6 | SS06 | Soluble | Solid | 300.0 | 9287 |
| MB 880-9287/1-A | Method Blank | Soluble | Solid | 300.0 | 9287 |
| LCS 880-9287/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 9287 |
| LCSD 880-9287/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 9287 |
| 880-7032-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 9287 |
| 880-7032-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 9287 |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS01

Date Collected: 10/06/21 15:02
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 8855 | 10/08/21 11:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 20 | 9368 | 10/13/21 16:07 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 9374 | 10/13/21 13:00 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 9189 | 10/11/21 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 9371 | 10/13/21 11:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 9354 | 10/14/21 02:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 9286 | 10/12/21 10:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | 9432 | 10/14/21 10:44 | CH | XEN MID |

Client Sample ID: SS02

Date Collected: 10/06/21 15:10
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 8855 | 10/08/21 11:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 9368 | 10/13/21 19:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 9242 | 10/11/21 15:20 | MR | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 9189 | 10/11/21 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 9371 | 10/13/21 11:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 9354 | 10/14/21 02:37 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 9286 | 10/12/21 10:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | 9432 | 10/14/21 10:50 | CH | XEN MID |

Client Sample ID: SS03

Date Collected: 10/06/21 15:20
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-3
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 8855 | 10/08/21 11:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 9114 | 10/10/21 21:06 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 9242 | 10/11/21 15:20 | MR | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 9189 | 10/11/21 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 9371 | 10/13/21 11:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 9354 | 10/14/21 02:57 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 9286 | 10/12/21 10:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | 9432 | 10/14/21 10:57 | CH | XEN MID |

Client Sample ID: SS04

Date Collected: 10/06/21 15:35
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 8855 | 10/08/21 11:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 9114 | 10/10/21 21:33 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 9242 | 10/11/21 15:20 | MR | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

Client Sample ID: SS04

Date Collected: 10/06/21 15:35
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 9189 | 10/11/21 13:34 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 9371 | 10/13/21 11:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 9354 | 10/14/21 03:17 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 9286 | 10/12/21 10:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 9432 | 10/14/21 11:03 | CH | XEN MID |

Client Sample ID: SS05

Date Collected: 10/06/21 15:40
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-5
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 8855 | 10/08/21 11:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 9114 | 10/10/21 21:59 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 9242 | 10/11/21 15:20 | MR | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 9387 | 10/13/21 14:23 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 9371 | 10/13/21 11:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 9354 | 10/14/21 03:37 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 9286 | 10/12/21 10:22 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 9432 | 10/14/21 11:09 | CH | XEN MID |

Client Sample ID: SS06

Date Collected: 10/06/21 15:50
Date Received: 10/07/21 11:05

Lab Sample ID: 890-1378-6
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 8855 | 10/08/21 11:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 9114 | 10/10/21 22:25 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 9242 | 10/11/21 15:20 | MR | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 9387 | 10/13/21 14:23 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 9371 | 10/13/21 11:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 9354 | 10/14/21 03:57 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 9287 | 10/12/21 10:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 9434 | 10/14/21 10:17 | 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.

Job ID: 890-1378-1

Project/Site: PLU 293

SDG: 31403236.020.0129

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 | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293

Job ID: 890-1378-1
SDG: 31403236.020.0129

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
 Project/Site: PLU 293

Job ID: 890-1378-1
 SDG: 31403236.020.0129

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1378-1 | SS01 | Solid | 10/06/21 15:02 | 10/07/21 11:05 | 0.5 |
| 890-1378-2 | SS02 | Solid | 10/06/21 15:10 | 10/07/21 11:05 | 0.5 |
| 890-1378-3 | SS03 | Solid | 10/06/21 15:20 | 10/07/21 11:05 | 0.5 |
| 890-1378-4 | SS04 | Solid | 10/06/21 15:35 | 10/07/21 11:05 | 0.5 |
| 890-1378-5 | SS05 | Solid | 10/06/21 15:40 | 10/07/21 11:05 | 0.5 |
| 890-1378-6 | SS06 | Solid | 10/06/21 15:50 | 10/07/21 11:05 | 0.5 |

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Chain of Custody

Work Order No:

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

| | | | |
|------------------|---------------------|-------------------------|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Adrian Baker |
| 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 , Tacoma.Morrissey@wsp.com |

| | | | | | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------------------|-----------------------------|------------------------------------|--------------------------|-----------------------------------|--------------------------|
| Program: UST/PST | | <input type="checkbox"/> RP | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RC | <input type="checkbox"/> Superfund | <input type="checkbox"/> | | |
| State of Project: | | | | | | | | |
| Reporting Level II | <input type="checkbox"/> | Level III | <input type="checkbox"/> | ST/UST | <input type="checkbox"/> | RP | <input type="checkbox"/> Level IV | <input type="checkbox"/> |
| Deliverables: EDD | <input type="checkbox"/> | ADAPT | <input type="checkbox"/> | Other: | | | | |
| Work Order Comments | | | | | | | | |
| www.xentco.com age _____ | | | | | | | | |

| Work Order Notes |
|--|
| Cost Center # 1139243001 Incident # NAPP2126045826 TAT starts the day received by the lab if received by 4:30pm |

| Work Order Notes |
|--|
| Cost Center # 1139243001 Incident # NAPP2126045826 TAT starts the day received by the lab if received by 4:30pm |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|----------------------|---------------------------|-------|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|
| 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 |
| Circle Method(s) and Metal(s) to be analyzed | | | TCLP / SPLLP 6010: | 8RCRA | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Na | Ni | Se | Ag | Tl | U | | | |

Ag SiO₂ Na Sr Ti Sn U V Zn
1634-245.1-1470-17471-Hg

Received by OCD: 6/27/2022 11:07:42 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1378-1

SDG Number: 31403236.020.0129

Login Number: 1378**List Source:** Eurofins Xenco, Carlsbad**List Number:** 1**Creator:** Clifton, Cloe

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1378-1

SDG Number: 31403236.020.0129

Login Number: 1378**List Source:** Eurofins Xenco, Midland**List Number:** 2**List Creation:** 10/08/21 11:50 AM**Creator:** Lowe, Katie

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1527-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: PLU 293 FLOW LINE

Revision: 1

For:

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

Attn: Tacoma Morrissey

A handwritten signature in black ink that reads "JESSICA KRAMER".

Authorized for release by:

1/6/2022 5:24:35 PM

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

LINKS

Review your project
results through

Total Access

Have a Question?



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 293 FLOW LINE

Laboratory Job ID: 890-1527-1
SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Qualifiers

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Job ID: 890-1527-1**Laboratory: Eurofins Xenco****Narrative****Job Narrative
890-1527-1****REVISION**

The report being provided is a revision of the original report sent on 11/15/2021. The report (revision 1) is being revised due to Per client email, updated sample IDs.

Report revision history

Receipt

The samples were received on 11/3/2021 4:55 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 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11531 and analytical batch 880-11601 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Client Sample ID: PH01
 Date Collected: 11/03/21 12:27
 Date Received: 11/03/21 16:55
 Sample Depth: 1

Lab Sample ID: 890-1527-1
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 22:42 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 22:42 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 22:42 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 11/05/21 11:19 | 11/05/21 22:42 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 22:42 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 11/05/21 11:19 | 11/05/21 22:42 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 131 | S1+ | 70 - 130 | 11/05/21 11:19 | 11/05/21 22:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 22:42 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 301 | | 49.9 | mg/Kg | | | 11/09/21 16:19 | 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 | 11/05/21 14:12 | 11/05/21 22:45 | | 1 |
| Diesel Range Organics (Over C10-C28) | 301 | | 49.9 | mg/Kg | 11/05/21 14:12 | 11/05/21 22:45 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 11/05/21 14:12 | 11/05/21 22:45 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | 11/05/21 14:12 | 11/05/21 22:45 | 1 |
| <i>o-Terphenyl</i> | 114 | | 70 - 130 | | | 11/05/21 14:12 | 11/05/21 22:45 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 117 | | 5.04 | mg/Kg | | | 11/10/21 13:09 | 1 |

Client Sample ID: PH01A

Date Collected: 11/03/21 12:32
 Date Received: 11/03/21 16:55
 Sample Depth: 4

Lab Sample ID: 890-1527-2
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 11/05/21 11:19 | 11/05/21 23:02 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 11/05/21 11:19 | 11/05/21 23:02 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 11/05/21 11:19 | 11/05/21 23:02 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 11/05/21 11:19 | 11/05/21 23:02 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 11/05/21 11:19 | 11/05/21 23:02 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 11/05/21 11:19 | 11/05/21 23:02 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | | | 11/05/21 11:19 | 11/05/21 23:02 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Client Sample ID: PH01A
Date Collected: 11/03/21 12:32
Date Received: 11/03/21 16:55
Sample Depth: 4

Lab Sample ID: 890-1527-2
Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 23:02 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 81.7 | | 49.9 | mg/Kg | | | 11/09/21 16:19 | 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 | | 11/05/21 14:12 | 11/05/21 23:48 | 1 |
| Diesel Range Organics (Over C10-C28) | 81.7 | | 49.9 | mg/Kg | | 11/05/21 14:12 | 11/05/21 23:48 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/05/21 14:12 | 11/05/21 23:48 | 1 |

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106 | | 70 - 130 | 11/05/21 14:12 | 11/05/21 23:48 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | 11/05/21 14:12 | 11/05/21 23:48 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1760 | | 24.9 | mg/Kg | | | 11/10/21 13:17 | 5 |

Client Sample ID: PH02**Lab Sample ID: 890-1527-3**

Date Collected: 11/03/21 12:16 Matrix: Solid

Date Received: 11/03/21 16:55

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 | | 11/05/21 11:19 | 11/05/21 23:23 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:23 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:23 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:23 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:23 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:23 | 1 |

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 23:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 23:23 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 2730 | | 50.0 | mg/Kg | | | 11/09/21 16:19 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Client Sample ID: PH02
Date Collected: 11/03/21 12:16
Date Received: 11/03/21 16:55
Sample Depth: 1

Lab Sample ID: 890-1527-3
Matrix: Solid

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 | | 11/05/21 14:12 | 11/06/21 00:09 | 1 |
| Diesel Range Organics (Over C10-C28) | 2450 | | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:09 | 1 |
| Oil Range Organics (Over C28-C36) | 278 | | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 00:09 | 1 |
| <i>o-Terphenyl</i> | 116 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 00:09 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|--------------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 14500 | | 50.0 | mg/Kg | | | 11/13/21 16:21 | 10 |

Client Sample ID: PH02A

Date Collected: 11/03/21 12:21

Date Received: 11/03/21 16:55

Sample Depth: 4

Lab Sample ID: 890-1527-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:43 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:43 | 1 |
| <i>o-Xylene</i> | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:43 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/05/21 11:19 | 11/05/21 23:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 23:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 23:43 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|------------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 476 | | 50.0 | mg/Kg | | | 11/09/21 16:19 | 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 | 476 | | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:31 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 00:31 | 1 |
| <i>o-Terphenyl</i> | 129 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 00:31 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Client Sample ID: PH02A
 Date Collected: 11/03/21 12:21
 Date Received: 11/03/21 16:55
 Sample Depth: 4

Lab Sample ID: 890-1527-4
 Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 276 | | 4.95 | mg/Kg | | | 11/10/21 13:33 | 1 |

Client Sample ID: PH03

Date Collected: 11/03/21 11:14
 Date Received: 11/03/21 16:55
 Sample Depth: 1

Lab Sample ID: 890-1527-5
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 11/05/21 11:19 | 11/06/21 00:03 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 11/09/21 16:19 | 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 | | 11/05/21 14:12 | 11/06/21 00:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:52 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 11/05/21 14:12 | 11/06/21 00:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 110 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 00:52 | 1 |
| o-Terphenyl | 130 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 00:52 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1070 | | 5.01 | mg/Kg | | | 11/10/21 14:56 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Client Sample ID: PH03A
 Date Collected: 11/03/21 11:20
 Date Received: 11/03/21 16:55
 Sample Depth: 4

Lab Sample ID: 890-1527-6
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:24 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:24 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:24 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:24 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:24 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:24 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | 11/05/21 11:19 | 11/06/21 00:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/05/21 11:19 | 11/06/21 00:24 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/09/21 16:19 | 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 | 11/05/21 14:12 | 11/06/21 01:13 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 11/05/21 14:12 | 11/06/21 01:13 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 11/05/21 14:12 | 11/06/21 01:13 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 109 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 01:13 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 01:13 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 133 | | 4.97 | mg/Kg | | | 11/10/21 15:04 | 1 |

Client Sample ID: PH04

Date Collected: 11/03/21 11:05
 Date Received: 11/03/21 16:55
 Sample Depth: 3

Lab Sample ID: 890-1527-7
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:44 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:44 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:44 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:44 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:44 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 11/05/21 11:19 | 11/06/21 00:44 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | 11/05/21 11:19 | 11/06/21 00:44 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Client Sample ID: PH04
Date Collected: 11/03/21 11:05
Date Received: 11/03/21 16:55
Sample Depth: 3

Lab Sample ID: 890-1527-7
Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | 11/05/21 11:19 | 11/06/21 00:44 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 11/09/21 16:19 | 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 | | 11/05/21 14:12 | 11/06/21 01:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 11/05/21 14:12 | 11/06/21 01:35 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 11/05/21 14:12 | 11/06/21 01:35 | 1 |

Surrogate

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 01:35 | 1 |
| o-Terphenyl | 121 | | 70 - 130 | 11/05/21 14:12 | 11/06/21 01:35 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2390 | | 24.8 | mg/Kg | | | 11/10/21 15:11 | 5 |

Client Sample ID: PH04A**Lab Sample ID: 890-1527-8**

Date Collected: 11/03/21 11:06
Date Received: 11/03/21 16:55
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:05 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:05 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:05 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:05 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:05 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:05 | 1 |

Surrogate

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | 11/05/21 11:19 | 11/06/21 01:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 11/05/21 11:19 | 11/06/21 01:05 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/09/21 16:19 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Client Sample ID: PH04A
Date Collected: 11/03/21 11:06
Date Received: 11/03/21 16:55
Sample Depth: 4

Lab Sample ID: 890-1527-8
Matrix: Solid

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 | | 11/05/21 14:12 | 11/06/21 01:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 01:56 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/06/21 01:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 105 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 01:56 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 01:56 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2770 | | 24.8 | mg/Kg | | | 11/10/21 15:19 | 5 |

Client Sample ID: PH05
Date Collected: 11/03/21 10:35
Date Received: 11/03/21 16:55
Sample Depth: 1

Lab Sample ID: 890-1527-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/05/21 11:19 | 11/06/21 01:25 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/09/21 16:19 | 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 | | 11/05/21 14:12 | 11/06/21 02:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/05/21 14:12 | 11/06/21 02:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/05/21 14:12 | 11/06/21 02:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 96 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 02:18 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 02:18 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Client Sample ID: PH05
Date Collected: 11/03/21 10:35
Date Received: 11/03/21 16:55
Sample Depth: 1

Lab Sample ID: 890-1527-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 900 | | 5.05 | mg/Kg | | | 11/10/21 15:26 | 1 |

Client Sample ID: PH05A
Date Collected: 11/03/21 10:45
Date Received: 11/03/21 16:55
Sample Depth: 4

Lab Sample ID: 890-1527-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 70 | | 70 - 130 | | | 11/05/21 11:19 | 11/06/21 01:45 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/10/21 11:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/09/21 16:19 | 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 | | 11/05/21 14:12 | 11/06/21 02:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/05/21 14:12 | 11/06/21 02:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/05/21 14:12 | 11/06/21 02:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 107 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 02:39 | 1 |
| o-Terphenyl | 121 | | 70 - 130 | | | 11/05/21 14:12 | 11/06/21 02:39 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 22.7 | | 5.05 | mg/Kg | | | 11/10/21 15:34 | 1 |

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|------------------------|--|-------------------|--|
| | | BFB1 (70-130) | DFBZ1 (70-130) | |
| 890-1527-1 | PH01 | 131 S1+ | 107 | |
| 890-1527-2 | PH01A | 123 | 113 | |
| 890-1527-3 | PH02 | 117 | 101 | |
| 890-1527-4 | PH02A | 125 | 102 | |
| 890-1527-5 | PH03 | 123 | 101 | |
| 890-1527-6 | PH03A | 114 | 102 | |
| 890-1527-7 | PH04 | 114 | 89 | |
| 890-1527-8 | PH04A | 116 | 98 | |
| 890-1527-9 | PH05 | 118 | 97 | |
| 890-1527-10 | PH05A | 74 | 70 | |
| 890-1538-A-1-B MSD | Matrix Spike Duplicate | 117 | 74 | |
| 890-1538-A-1-E MS | Matrix Spike | 115 | 106 | |
| LCS 880-11531/1-A | Lab Control Sample | 108 | 107 | |
| LCSD 880-11531/2-A | Lab Control Sample Dup | 112 | 106 | |
| MB 880-11531/5-A | Method Blank | 123 | 110 | |

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|------------------------|--|-------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 890-1527-1 | PH01 | 104 | 114 | |
| 890-1527-1 MS | PH01 | 105 | 100 | |
| 890-1527-1 MSD | PH01 | 116 | 113 | |
| 890-1527-2 | PH01A | 106 | 118 | |
| 890-1527-3 | PH02 | 111 | 116 | |
| 890-1527-4 | PH02A | 117 | 129 | |
| 890-1527-5 | PH03 | 110 | 130 | |
| 890-1527-6 | PH03A | 109 | 118 | |
| 890-1527-7 | PH04 | 107 | 121 | |
| 890-1527-8 | PH04A | 105 | 118 | |
| 890-1527-9 | PH05 | 96 | 105 | |
| 890-1527-10 | PH05A | 107 | 121 | |
| LCS 880-11602/2-A | Lab Control Sample | 84 | 93 | |
| LCSD 880-11602/3-A | Lab Control Sample Dup | 82 | 82 | |
| MB 880-11602/1-A | Method Blank | 113 | 128 | |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-11531/5-A****Matrix: Solid****Analysis Batch: 11601**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 17:21 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 17:21 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 17:21 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 11/05/21 11:19 | 11/05/21 17:21 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/05/21 11:19 | 11/05/21 17:21 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 11/05/21 11:19 | 11/05/21 17:21 | | 1 |

Client Sample ID: Method Blank**Prep Type: Total/NA****Prep Batch: 11531**

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 17:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 17:21 | 1 |

Lab Sample ID: LCS 880-11531/1-A**Matrix: Solid****Analysis Batch: 11601**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec. |
|---------------------|-------|---------|-----------|-------|----|----------|-------|
| | Added | Result | Qualifier | | | | |
| Benzene | 0.100 | 0.08524 | | mg/Kg | 85 | 70 - 130 | |
| Toluene | 0.100 | 0.08784 | | mg/Kg | 88 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09086 | | mg/Kg | 91 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1800 | | mg/Kg | 90 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09060 | | mg/Kg | 91 | 70 - 130 | |

| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 17:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 17:21 | 1 |

Client Sample ID: Lab Control Sample**Prep Type: Total/NA****Prep Batch: 11531****Lab Sample ID: LCSD 880-11531/2-A****Matrix: Solid****Analysis Batch: 11601**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | %Rec. |
|---------------------|-------|---------|-----------|-------|-----|----------|-------|
| | Added | Result | Qualifier | | | | |
| Benzene | 0.100 | 0.09003 | | mg/Kg | 90 | 70 - 130 | 5 |
| Toluene | 0.100 | 0.09200 | | mg/Kg | 92 | 70 - 130 | 5 |
| Ethylbenzene | 0.100 | 0.09994 | | mg/Kg | 100 | 70 - 130 | 10 |
| m-Xylene & p-Xylene | 0.200 | 0.1957 | | mg/Kg | 98 | 70 - 130 | 8 |
| o-Xylene | 0.100 | 0.09561 | | mg/Kg | 96 | 70 - 130 | 5 |

| Surrogate | LCSD | LCSD | Limits | Prepared | Analyzed | RPD |
|-----------------------------|-----------|-----------|----------|----------------|----------------|-----|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 17:21 | 5 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | 11/05/21 11:19 | 11/05/21 17:21 | 35 |

Client Sample ID: Lab Control Sample Dup**Prep Type: Total/NA****Prep Batch: 11531****Lab Sample ID: 890-1538-A-1-B MSD****Matrix: Solid****Analysis Batch: 11601**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD |
|---------|----------|-----------|-------|---------|-----------|-------|----|----------|--------|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| Benzene | <0.00202 | U F1 | 0.100 | 0.06575 | F1 | mg/Kg | 65 | 70 - 130 | 12 | 35 |
| Toluene | <0.00202 | U F1 F2 | 0.100 | 0.05482 | F1 F2 | mg/Kg | 55 | 70 - 130 | 36 | 35 |

Client Sample ID: Matrix Spike Duplicate**Prep Type: Total/NA****Prep Batch: 11531**

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

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

| Lab Sample ID: 890-1538-A-1-B MSD | | | | Client Sample ID: Matrix Spike Duplicate | | | | | | | |
|-----------------------------------|---------------|------------------|-------------|--|---------------|-------|----|----------|--------|-----|-----------|
| Matrix: Solid | | | | Prep Type: Total/NA | | | | | | | |
| Analysis Batch: 11601 | | | | Prep Batch: 11531 | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | Limits | RPD | RPD Limit |
| Ethylbenzene | <0.00202 | U F1 | 0.100 | 0.06434 | F1 | mg/Kg | 64 | 70 - 130 | 23 | 35 | |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.201 | 0.1183 | F1 | mg/Kg | 58 | 70 - 130 | 29 | 35 | |
| o-Xylene | <0.00202 | U | 0.100 | 0.08815 | | mg/Kg | 87 | 70 - 130 | 11 | 35 | |
| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 74 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-1538-A-1-E MS

Matrix: Solid
Analysis Batch: 11601

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 11531

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | Limits | | |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|--------|--|--|
| Benzene | <0.00202 | U F1 | 0.0996 | 0.07394 | | mg/Kg | 74 | 70 - 130 | | | |
| Toluene | <0.00202 | U F1 F2 | 0.0996 | 0.07907 | | mg/Kg | 79 | 70 - 130 | | | |
| Ethylbenzene | <0.00202 | U F1 | 0.0996 | 0.08129 | | mg/Kg | 82 | 70 - 130 | | | |
| m-Xylene & p-Xylene | <0.00403 | U F1 | 0.199 | 0.1578 | | mg/Kg | 79 | 70 - 130 | | | |
| o-Xylene | <0.00202 | U | 0.0996 | 0.07868 | | mg/Kg | 78 | 70 - 130 | | | |
| Surrogate | MS %Recovery | MS Qualifier | MS Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | | | | | | |

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

Lab Sample ID: MB 880-11602/1-A
Matrix: Solid
Analysis Batch: 11509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11602

| 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 | | 11/05/21 14:12 | 11/05/21 21:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/05/21 21:41 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/05/21 14:12 | 11/05/21 21:41 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | MB Limits | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 113 | | 70 - 130 | | 11/05/21 14:12 | 11/05/21 21:41 | 1 | |
| o-Terphenyl | 128 | | 70 - 130 | | 11/05/21 14:12 | 11/05/21 21:41 | 1 | |

Lab Sample ID: LCS 880-11602/2-A
Matrix: Solid
Analysis Batch: 11509

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11602

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits | |
|--------------------------------------|-------------|------------|---------------|-------|-----|----------|--------|--|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1105 | | mg/Kg | 110 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 978.6 | | mg/Kg | 98 | 70 - 130 | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

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

Lab Sample ID: LCS 880-11602/2-A

Matrix: Solid

Analysis Batch: 11509

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11602

| Surrogate | LCS | LCS | |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 84 | | 70 - 130 |
| o-Terphenyl | 93 | | 70 - 130 |

Lab Sample ID: LCSD 880-11602/3-A

Matrix: Solid

Analysis Batch: 11509

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11602

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | Limit | |
|--------------------------------------|-------------|-------------|----------------|-------|---|-------|----------|-------|----|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1088 | | mg/Kg | | 109 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 809.1 | | mg/Kg | | 81 | 70 - 130 | 19 | 20 |

| Surrogate | LCS | LCS | |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 82 | | 70 - 130 |
| o-Terphenyl | 82 | | 70 - 130 |

Lab Sample ID: 890-1527-1 MS

Matrix: Solid

Analysis Batch: 11509

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 11602

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD | Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|-------|----------|-------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 997 | 955.2 | | mg/Kg | | 96 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 301 | | 997 | 1180 | | mg/Kg | | 88 | 70 - 130 | |

| Surrogate | MS | MS | |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 105 | | 70 - 130 |
| o-Terphenyl | 100 | | 70 - 130 |

Lab Sample ID: 890-1527-1 MSD

Matrix: Solid

Analysis Batch: 11509

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 11602

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | Limit | |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|-------|----------|-------|----|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 1000 | 1102 | | mg/Kg | | 110 | 70 - 130 | 14 | 20 |
| Diesel Range Organics (Over C10-C28) | 301 | | 1000 | 1358 | | mg/Kg | | 106 | 70 - 130 | 14 | 20 |

| Surrogate | MSD | MSD | |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 116 | | 70 - 130 |
| o-Terphenyl | 113 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-11669/1-A****Matrix: Solid****Analysis Batch: 11847**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/10/21 12:24 | 1 |

Lab Sample ID: LCS 880-11669/2-A**Matrix: Solid****Analysis Batch: 11847**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|----------------|---------------|------------------|-------|-----|----------|--------|
| Chloride | 250 | 249.5 | | mg/Kg | 100 | 90 - 110 | |

Lab Sample ID: LCSD 880-11669/3-A**Matrix: Solid****Analysis Batch: 11847**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | RPD |
|----------|----------------|----------------|-------------------|-------|-----|----------|-----|-----|
| Chloride | 250 | 250.1 | | mg/Kg | 100 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-1527-10 MS**Matrix: Solid****Analysis Batch: 11847**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|----|----------|-----|
| Chloride | 22.7 | | 253 | 273.2 | | mg/Kg | 99 | 90 - 110 | 0 |

Lab Sample ID: 890-1527-10 MSD**Matrix: Solid****Analysis Batch: 11847**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | RPD |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|----|----------|-----|-----|
| Chloride | 22.7 | | 250 | 263.3 | | mg/Kg | 96 | 90 - 110 | 4 | 20 |

Lab Sample ID: MB 880-12022/1-A**Matrix: Solid****Analysis Batch: 12169**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/12/21 19:29 | 1 |

Lab Sample ID: LCS 880-12022/2-A**Matrix: Solid****Analysis Batch: 12169**

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

Lab Sample ID: LCSD 880-12022/3-A**Matrix: Solid****Analysis Batch: 12169**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | RPD |
|----------|----------------|----------------|-------------------|-------|-----|----------|-----|-----|
| Chloride | 250 | 251.4 | | mg/Kg | 101 | 90 - 110 | 3 | 20 |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-8189-A-15-E MS

Matrix: Solid

Analysis Batch: 12169

Client Sample ID: Matrix Spike
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD | %Rec. Limits | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|-------|-----|--------------|-----------|
| Chloride | 4970 | | 1250 | 6193 | | mg/Kg | | 98 | | 90 - 110 | |

Lab Sample ID: 880-8189-A-15-F MSD

Matrix: Solid

Analysis Batch: 12169

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit | |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|-------|-----|-----------|------|
| Chloride | 4970 | | 1250 | 6218 | | mg/Kg | | 100 | | 90 - 110 | 0 20 |

QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

GC VOA**Prep Batch: 11531**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1527-1 | PH01 | Total/NA | Solid | 5035 | |
| 890-1527-2 | PH01A | Total/NA | Solid | 5035 | |
| 890-1527-3 | PH02 | Total/NA | Solid | 5035 | |
| 890-1527-4 | PH02A | Total/NA | Solid | 5035 | |
| 890-1527-5 | PH03 | Total/NA | Solid | 5035 | |
| 890-1527-6 | PH03A | Total/NA | Solid | 5035 | |
| 890-1527-7 | PH04 | Total/NA | Solid | 5035 | |
| 890-1527-8 | PH04A | Total/NA | Solid | 5035 | |
| 890-1527-9 | PH05 | Total/NA | Solid | 5035 | |
| 890-1527-10 | PH05A | Total/NA | Solid | 5035 | |
| MB 880-11531/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-11531/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-11531/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1538-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |
| 890-1538-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |

Analysis Batch: 11601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1527-1 | PH01 | Total/NA | Solid | 8021B | 11531 |
| 890-1527-2 | PH01A | Total/NA | Solid | 8021B | 11531 |
| 890-1527-3 | PH02 | Total/NA | Solid | 8021B | 11531 |
| 890-1527-4 | PH02A | Total/NA | Solid | 8021B | 11531 |
| 890-1527-5 | PH03 | Total/NA | Solid | 8021B | 11531 |
| 890-1527-6 | PH03A | Total/NA | Solid | 8021B | 11531 |
| 890-1527-7 | PH04 | Total/NA | Solid | 8021B | 11531 |
| 890-1527-8 | PH04A | Total/NA | Solid | 8021B | 11531 |
| 890-1527-9 | PH05 | Total/NA | Solid | 8021B | 11531 |
| 890-1527-10 | PH05A | Total/NA | Solid | 8021B | 11531 |
| MB 880-11531/5-A | Method Blank | Total/NA | Solid | 8021B | 11531 |
| LCS 880-11531/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 11531 |
| LCSD 880-11531/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 11531 |
| 890-1538-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 11531 |
| 890-1538-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 11531 |

Analysis Batch: 11890

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1527-1 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-1527-2 | PH01A | Total/NA | Solid | Total BTEX | |
| 890-1527-3 | PH02 | Total/NA | Solid | Total BTEX | |
| 890-1527-4 | PH02A | Total/NA | Solid | Total BTEX | |
| 890-1527-5 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-1527-6 | PH03A | Total/NA | Solid | Total BTEX | |
| 890-1527-7 | PH04 | Total/NA | Solid | Total BTEX | |
| 890-1527-8 | PH04A | Total/NA | Solid | Total BTEX | |
| 890-1527-9 | PH05 | Total/NA | Solid | Total BTEX | |
| 890-1527-10 | PH05A | Total/NA | Solid | Total BTEX | |

QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

GC Semi VOA**Analysis Batch: 11509**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1527-1 | PH01 | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-2 | PH01A | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-3 | PH02 | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-4 | PH02A | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-5 | PH03 | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-6 | PH03A | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-7 | PH04 | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-8 | PH04A | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-9 | PH05 | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-10 | PH05A | Total/NA | Solid | 8015B NM | 11602 |
| MB 880-11602/1-A | Method Blank | Total/NA | Solid | 8015B NM | 11602 |
| LCS 880-11602/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 11602 |
| LCSD 880-11602/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-1 MS | PH01 | Total/NA | Solid | 8015B NM | 11602 |
| 890-1527-1 MSD | PH01 | Total/NA | Solid | 8015B NM | 11602 |

Prep Batch: 11602

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1527-1 | PH01 | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-2 | PH01A | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-3 | PH02 | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-4 | PH02A | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-5 | PH03 | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-6 | PH03A | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-7 | PH04 | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-8 | PH04A | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-9 | PH05 | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-10 | PH05A | Total/NA | Solid | 8015NM Prep | 11602 |
| MB 880-11602/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | 11602 |
| LCS 880-11602/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | 11602 |
| LCSD 880-11602/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-1 MS | PH01 | Total/NA | Solid | 8015NM Prep | 11602 |
| 890-1527-1 MSD | PH01 | Total/NA | Solid | 8015NM Prep | 11602 |

Analysis Batch: 11856

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1527-1 | PH01 | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-2 | PH01A | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-3 | PH02 | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-4 | PH02A | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-5 | PH03 | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-6 | PH03A | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-7 | PH04 | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-8 | PH04A | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-9 | PH05 | Total/NA | Solid | 8015 NM | 11856 |
| 890-1527-10 | PH05A | Total/NA | Solid | 8015 NM | 11856 |

QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

HPLC/IC**Leach Batch: 11669**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1527-1 | PH01 | Soluble | Solid | DI Leach | |
| 890-1527-2 | PH01A | Soluble | Solid | DI Leach | |
| 890-1527-4 | PH02A | Soluble | Solid | DI Leach | |
| 890-1527-5 | PH03 | Soluble | Solid | DI Leach | |
| 890-1527-6 | PH03A | Soluble | Solid | DI Leach | |
| 890-1527-7 | PH04 | Soluble | Solid | DI Leach | |
| 890-1527-8 | PH04A | Soluble | Solid | DI Leach | |
| 890-1527-9 | PH05 | Soluble | Solid | DI Leach | |
| 890-1527-10 | PH05A | Soluble | Solid | DI Leach | |
| MB 880-11669/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-11669/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-11669/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1527-10 MS | PH05A | Soluble | Solid | DI Leach | |
| 890-1527-10 MSD | PH05A | Soluble | Solid | DI Leach | |

Analysis Batch: 11847

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1527-1 | PH01 | Soluble | Solid | 300.0 | 11669 |
| 890-1527-2 | PH01A | Soluble | Solid | 300.0 | 11669 |
| 890-1527-4 | PH02A | Soluble | Solid | 300.0 | 11669 |
| 890-1527-5 | PH03 | Soluble | Solid | 300.0 | 11669 |
| 890-1527-6 | PH03A | Soluble | Solid | 300.0 | 11669 |
| 890-1527-7 | PH04 | Soluble | Solid | 300.0 | 11669 |
| 890-1527-8 | PH04A | Soluble | Solid | 300.0 | 11669 |
| 890-1527-9 | PH05 | Soluble | Solid | 300.0 | 11669 |
| 890-1527-10 | PH05A | Soluble | Solid | 300.0 | 11669 |
| MB 880-11669/1-A | Method Blank | Soluble | Solid | 300.0 | 11669 |
| LCS 880-11669/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 11669 |
| LCSD 880-11669/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 11669 |
| 890-1527-10 MS | PH05A | Soluble | Solid | 300.0 | 11669 |
| 890-1527-10 MSD | PH05A | Soluble | Solid | 300.0 | 11669 |

Leach Batch: 12022

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1527-3 | PH02 | Soluble | Solid | DI Leach | |
| MB 880-12022/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-12022/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-12022/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-8189-A-15-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-8189-A-15-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 12169

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1527-3 | PH02 | Soluble | Solid | 300.0 | 12022 |
| MB 880-12022/1-A | Method Blank | Soluble | Solid | 300.0 | 12022 |
| LCS 880-12022/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 12022 |
| LCSD 880-12022/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 12022 |
| 880-8189-A-15-E MS | Matrix Spike | Soluble | Solid | 300.0 | 12022 |
| 880-8189-A-15-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 12022 |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Client Sample ID: PH01

Date Collected: 11/03/21 12:27

Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/05/21 22:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/05/21 22:45 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 11847 | 11/10/21 13:09 | CH | XEN MID |

Client Sample ID: PH01A

Date Collected: 11/03/21 12:32

Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/05/21 23:02 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/05/21 23:48 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 11847 | 11/10/21 13:17 | CH | XEN MID |

Client Sample ID: PH02

Date Collected: 11/03/21 12:16

Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/05/21 23:23 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 00:09 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 12022 | 11/11/21 12:56 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 12169 | 11/13/21 16:21 | CH | XEN MID |

Client Sample ID: PH02A

Date Collected: 11/03/21 12:21

Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/05/21 23:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Client Sample ID: PH02A
Date Collected: 11/03/21 12:21
Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 00:31 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 11847 | 11/10/21 13:33 | CH | XEN MID |

Client Sample ID: PH03
Date Collected: 11/03/21 11:14
Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-5
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/06/21 00:03 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 00:52 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 11847 | 11/10/21 14:56 | CH | XEN MID |

Client Sample ID: PH03A
Date Collected: 11/03/21 11:20
Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-6
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/06/21 00:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 01:13 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 11847 | 11/10/21 15:04 | CH | XEN MID |

Client Sample ID: PH04
Date Collected: 11/03/21 11:05
Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/06/21 00:44 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 01:35 | AJ | XEN MID |

Eurofins Xenco

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
 SDG: 31403236.020.0129

Client Sample ID: PH04

Date Collected: 11/03/21 11:05
 Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 11847 | 11/10/21 15:11 | CH | XEN MID |

Client Sample ID: PH04A

Date Collected: 11/03/21 11:06
 Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-8
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/06/21 01:05 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 01:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 11847 | 11/10/21 15:19 | CH | XEN MID |

Client Sample ID: PH05

Date Collected: 11/03/21 10:35
 Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-9
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/06/21 01:25 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 02:18 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 11847 | 11/10/21 15:26 | CH | XEN MID |

Client Sample ID: PH05A

Date Collected: 11/03/21 10:45
 Date Received: 11/03/21 16:55

Lab Sample ID: 890-1527-10
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11531 | 11/05/21 11:19 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11601 | 11/06/21 01:45 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 11890 | 11/10/21 11:00 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 11856 | 11/09/21 16:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11602 | 11/05/21 14:12 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11509 | 11/06/21 02:39 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11669 | 11/08/21 11:25 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 11847 | 11/10/21 15:34 | CH | XEN MID |

Eurofins Xenco

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Laboratory References:

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

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Eurofins Xenco

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

Laboratory: Eurofins Xenco

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Xenco

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1
SDG: 31403236.020.0129

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 293 FLOW LINE

Job ID: 890-1527-1

SDG: 31403236.020.0129

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----|
| 890-1527-1 | PH01 | Solid | 11/03/21 12:27 | 11/03/21 16:55 | 1 | 3 |
| 890-1527-2 | PH01A | Solid | 11/03/21 12:32 | 11/03/21 16:55 | 4 | 4 |
| 890-1527-3 | PH02 | Solid | 11/03/21 12:16 | 11/03/21 16:55 | 1 | 5 |
| 890-1527-4 | PH02A | Solid | 11/03/21 12:21 | 11/03/21 16:55 | 4 | 6 |
| 890-1527-5 | PH03 | Solid | 11/03/21 11:14 | 11/03/21 16:55 | 1 | 7 |
| 890-1527-6 | PH03A | Solid | 11/03/21 11:20 | 11/03/21 16:55 | 4 | 8 |
| 890-1527-7 | PH04 | Solid | 11/03/21 11:05 | 11/03/21 16:55 | 3 | 9 |
| 890-1527-8 | PH04A | Solid | 11/03/21 11:06 | 11/03/21 16:55 | 4 | 10 |
| 890-1527-9 | PH05 | Solid | 11/03/21 10:35 | 11/03/21 16:55 | 1 | 11 |
| 890-1527-10 | PH05A | Solid | 11/03/21 10:45 | 11/03/21 16:55 | 4 | 12 |



Chain of Custody

Work Order No: _____

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) 820-2000
www.xenco.com

Work Order Comments

Program: UST/PST PRP Brownfields RC Superfund

State of Project:

NM

Reporting Level: Level II Level III STS/STU RRP Level V

Deliverables: EDD ADaPT Other: _____

| Project Manager: | Tacoma Morrissey | Bill to (if different) | Kyle Littrell |
|------------------|-----------------------------------|------------------------|-------------------|
| Company Name: | WSP USA Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A St. Bldg 1, Unit 222 | Address: | 3104 E Greene St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM |

Phone: (432) 704-5178 Email: travis.casey@wsp.com, kate.lennings@wsp.com, dan.moir@wsp.com

Work Order Notes

IN:NAPP2126045826
 CC:1139243001
 API:30-015-34877

| ANALYSIS REQUEST | | | | |
|-----------------------|--|--|--|--|
| Project Name: | PLU 293 Flow Line | Turn Around | | |
| Project Number: | 31403236.020.0129 | Routine X | | |
| P.O. Number: | | Rush: . | | |
| Sampler's Name: | Travis Casey | Due Date: | | |
| SAMPLE RECEIPT | Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Temperature (°C): | 2.4 <input checked="" type="checkbox"/> 2.2 <input type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID: 1WMS007 | | |
| Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Correction Factor: -0.2 | | |
| Cooler Custody Seals: | | Total Containers: | | |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | | |



890-1527 Chain of Custody

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

| Number of Containers | | | | |
|-----------------------|--------|--------------|--------------|-------|
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth |
| PH01 | S | 11/3/2021 | 12:27 | 1 |
| PH01 | S | 11/3/2021 | 12:32 | 4 |
| PH02 | S | 11/3/2021 | 12:16 | 1 |
| PH02 | S | 11/3/2021 | 12:21 | 4 |
| PH03 | S | 11/3/2021 | 11:14 | 1 |
| PH03 | S | 11/3/2021 | 11:20 | 4 |
| PH04 | S | 11/3/2021 | 11:05 | 3 |
| PH04 | S | 11/3/2021 | 11:06 | 4 |
| PH05 | S | 11/3/2021 | 10:35 | 1 |
| PH05 | S | 11/3/2021 | 10:45 | 4 |

Sample Comments

Composite

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 \$25.00 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 | Clive Gandy | 11-3-21 1655 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Chain of Custody Record

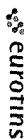


eurofins

Environment Testing
America

| Client Information (Sub Contract Lab) | Sampler | Lab P.M. Kramer, Jessica | Carrier Tracking No(s) | COC No: 890-495 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|------------------------------|--|----------------------|-------------|-------------|------------------------------|--|--------------------|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|---------|-------|-------|---|---|
| Client Contact: | Phone | E-Mail | State of Origin | Page: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipping/Receiving | New Mexico | | | Page 1 of 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: | Eurofins Xenco | | | Job #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | 1211 W Florida Ave, Midland | | | 890-1527-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TX 79701 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 432-704-5440(Tel) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P/L U 293 FLOW LINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAT Requested (days): 11/9/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8015MOD_Calc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300_ORGFM_28D/DI_LEACH Chloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8021B/5035FP_Calc (MOD) BTEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total_BTEX_GCV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Number of containers: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Sample Identification - Client ID (Lab ID)</p> <table border="1"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Solid, O-waste/Oil, Suspended, Other)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr> <td>11/3/21</td> <td>12:27</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>12:32</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>12:16</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>12:21</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>11:14</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>11:20</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>11:05</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>11:06</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> <tr> <td>11/3/21</td> <td>10:35</td> <td>Solid</td> <td>X</td> <td>X</td> </tr> </tbody> </table> | | | | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, O-waste/Oil, Suspended, Other) | Preservation Code: | 11/3/21 | 12:27 | Solid | X | X | 11/3/21 | 12:32 | Solid | X | X | 11/3/21 | 12:16 | Solid | X | X | 11/3/21 | 12:21 | Solid | X | X | 11/3/21 | 11:14 | Solid | X | X | 11/3/21 | 11:20 | Solid | X | X | 11/3/21 | 11:05 | Solid | X | X | 11/3/21 | 11:06 | Solid | X | X | 11/3/21 | 10:35 | Solid | X | X |
| Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, O-waste/Oil, Suspended, Other) | Preservation Code: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 12:27 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 12:32 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 12:16 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 12:21 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 11:14 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 11:20 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 11:05 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 11:06 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/3/21 | 10:35 | Solid | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/similarity 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.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Possible Hazard Identification</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Unconfirmed</p> <p>Deliverable Requested I II III IV Other (specify)</p> <p>Empty Kit Relinquished by</p> <p>Relinquished by</p> <p>Relinquished by</p> <p>Custody Seals Intact.</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Primary Deliverable Rank 2</p> <p>Relinquished by</p> <p>Date/Time</p> <p>Company</p> <p>Received by</p> <p>Method of Shipment:</p> <p>Special Instructions/QC Requirements</p> <p>Relinquished by</p> <p>Date/Time</p> <p>Company</p> <p>Received by</p> <p>Date/Time</p> <p>Company</p> <p>Cooler Temperature(s) °C and Other Remarks</p> <p>44/4.7</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Chain of Custody Record



| | | | | | |
|--|--|---|---|---|--|
| Client Information (Sub Contract Lab) | | Sampler | Lab P/M Kramer Jessica | Carrier Tracking No(s) | COC No 890-495 2 |
| Client Contact: Shipping/Receiving | | Phone | E-Mail jessica.kramer@eurofinsel.com | State of Origin New Mexico | Page: Page 2 of 2 |
| Company Eurofins Xenco | | Accreditations Required (See note) NELAP - Louisiana NELAP - Texas | | | |
| Address: 1211 W Florida Ave, Midland, TX 79701 | | Due Date Requested 11/9/2021 | TAT Requested (days): | Analysis Requested | |
| Phone: 432-704-5440(Tel) Email: Project Name PLU 293 FLOW LINE Site | | PO# VO# Project # 89000004 | SSOW#: | | |
| Sample Identification - Client ID (Lab ID) PH05 (890-1527-10) | | Sample Date 11/3/21 | Sample Time 10:45 Mountain | Sample Type (C=Comp, G=grab, B=Issue As Is) Solid | Matrix (W=water, S=solvent, O=oakwood, A=air) Solid |
| | | | | Preservation Code: <input checked="" type="checkbox"/> | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) |
| | | | | <input checked="" type="checkbox"/> | 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 8015MOD_Calc |
| | | | | <input checked="" type="checkbox"/> | 300_ORGFM_28D/DI_LEACH Chloride 8021B/5036FP_Calc (MOD) BTEX Total_BTEX_GCV |
| | | | | <input checked="" type="checkbox"/> | Total Number of containers |
| | | | | <input checked="" type="checkbox"/> | Special Instructions/Note |
| | | | | <input checked="" type="checkbox"/> | Preservation Codes |
| | | | | <input checked="" type="checkbox"/> | A HCL B NaOH C ZnAcetate D Nitric Acid E Na2CO3 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M CMAA N Hexane O Acetone P Na2S2O3 R Na2S2O3 S H2S2O4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify) Other: |
| <p>Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/testers/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 immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p> <p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2</p> <p>Empty Kit Relinquished by Relinquished by <i>Dave Cif</i> 11-4-21 Date/ Relinquished by Date/ Relinquished by Date/ Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p> <p>Special Instructions/QC Requirements</p> <p>Date Time Received by <i>J. M. Mancuso</i> Method of Shipment: Date/Time Company Date/Time Company Date/Time Company Cooler Temperature(s) °C and Other Remarks</p> | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1527-1
SDG Number: 31403236.020.0129**Login Number: 1527****List Source: Eurofins Xenco****List Number: 1****Creator: Clifton, Cloe**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1527-1
SDG Number: 31403236.020.0129**Login Number:** 1527**List Source:** Eurofins Xenco**List Number:** 2**List Creation:** 11/05/21 01:13 PM**Creator:** Kramer, Jessica

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 6 |
| Sample custody seals, if present, are intact. | True | | 7 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 8 |
| Samples were received on ice. | True | | 9 |
| Cooler Temperature is acceptable. | True | | 10 |
| Cooler Temperature is recorded. | True | 4.6/4.7 | 11 |
| COC is present. | True | | 12 |
| COC is filled out in ink and legible. | True | | 13 |
| COC is filled out with all pertinent information. | True | | 14 |
| 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"). | N/A | | |



Environment Testing
America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-1542-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: PLU 293 FLOW LINE

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

Attn: Tacoma Morrissey

Authorized for release by:
11/12/2021 9:27:59 AM

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 293 FLOW LINE

Laboratory Job ID: 890-1542-1
SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
SDG: 31403236.020.0129

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| 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 293 FLOW LINE

Job ID: 890-1542-1
SDG: 31403236.020.0129

Job ID: 890-1542-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative**Job Narrative
890-1542-1****Receipt**

The samples were received on 11/5/2021 2:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°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

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-11848/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

Client Sample ID: SW01
 Date Collected: 11/04/21 11:34
 Date Received: 11/05/21 14:57
 Sample Depth: 0 - 4

Lab Sample ID: 890-1542-1
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 118 | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |
| 1,4-Difluorobenzene (Surr) | | 103 | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 17:35 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/09/21 15:18 | 11/10/21 00:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/10/21 00:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/10/21 00:21 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | | 107 | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 00:21 | 1 |
| <i>o</i> -Terphenyl | | 113 | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 00:21 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 70.1 | | 4.97 | mg/Kg | | | 11/11/21 21:45 | 1 |

Client Sample ID: SW02

Date Collected: 11/04/21 13:03
 Date Received: 11/05/21 14:57
 Sample Depth: 0 - 4

Lab Sample ID: 890-1542-2
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 89 | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 17:55 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

Client Sample ID: SW02
 Date Collected: 11/04/21 13:03
 Date Received: 11/05/21 14:57
 Sample Depth: 0 - 4

Lab Sample ID: 890-1542-2
 Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 72 | | 70 - 130 | 11/09/21 08:29 | 11/09/21 17:55 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/09/21 15:18 | 11/10/21 00:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/10/21 00:42 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/10/21 00:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 115 | | 70 - 130 | 11/09/21 15:18 | 11/10/21 00:42 | 1 |
| o-Terphenyl | 119 | | 70 - 130 | 11/09/21 15:18 | 11/10/21 00:42 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 40.1 | | 5.00 | mg/Kg | | | 11/11/21 21:52 | 1 |

Client Sample ID: SW03

Lab Sample ID: 890-1542-3

Matrix: Solid

Date Collected: 11/04/21 13:05

Date Received: 11/05/21 14:57

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:16 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:16 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | 11/09/21 08:29 | 11/09/21 18:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 11/09/21 08:29 | 11/09/21 18:16 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/11/21 15:00 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

Client Sample ID: SW03
 Date Collected: 11/04/21 13:05
 Date Received: 11/05/21 14:57
 Sample Depth: 0 - 4

Lab Sample ID: 890-1542-3
 Matrix: Solid

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 | | 11/09/21 15:18 | 11/10/21 01:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/09/21 15:18 | 11/10/21 01:05 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/09/21 15:18 | 11/10/21 01:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 106 | | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 01:05 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 01:05 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 57.9 | | 5.04 | mg/Kg | | | 11/11/21 21:59 | 1 |

Client Sample ID: SW04
 Date Collected: 11/04/21 14:38
 Date Received: 11/05/21 14:57
 Sample Depth: 0 - 4

Lab Sample ID: 890-1542-4
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 | | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 11/09/21 08:29 | 11/09/21 18:36 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/09/21 15:18 | 11/10/21 01:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/09/21 15:18 | 11/10/21 01:27 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/09/21 15:18 | 11/10/21 01:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 107 | | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 01:27 | 1 |
| o-Terphenyl | 111 | | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 01:27 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

Client Sample ID: SW04
Date Collected: 11/04/21 14:38
Date Received: 11/05/21 14:57
Sample Depth: 0 - 4

Lab Sample ID: 890-1542-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 53.6 | | 4.98 | mg/Kg | | | 11/11/21 22:21 | 1 |

1

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Surrogate Summary

Client: WSP USA Inc.

Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1

SDG: 31403236.020.0129

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) | | | | |
|----------------------|-------------------------|--------------------------|---------------------------|--|--|--|--|
| 880-8083-A-3-B MS | Matrix Spike | 126 | 106 | | | | |
| 880-8083-A-3-C MSD | Matrix Spike Duplicate | 122 | 103 | | | | |
| 890-1542-1 | SW01 | 118 | 103 | | | | |
| 890-1542-2 | SW02 | 89 | 72 | | | | |
| 890-1542-3 | SW03 | 115 | 95 | | | | |
| 890-1542-4 | SW04 | 119 | 101 | | | | |
| LCS 880-11794/1-A | Lab Control Sample | 113 | 102 | | | | |
| LCSD 880-11794/2-A | Lab Control Sample Dup | 116 | 101 | | | | |
| MB 880-11794/5-A | Method Blank | 119 | 106 | | | | |

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) | | | | |
|----------------------|-------------------------|--------------------------|---------------------------|--|--|--|--|
| 890-1542-1 | SW01 | 107 | 113 | | | | |
| 890-1542-2 | SW02 | 115 | 119 | | | | |
| 890-1542-3 | SW03 | 106 | 114 | | | | |
| 890-1542-4 | SW04 | 107 | 111 | | | | |
| 890-1544-A-1-F MS | Matrix Spike | 107 | 103 | | | | |
| 890-1544-A-1-G MSD | Matrix Spike Duplicate | 107 | 104 | | | | |
| LCS 880-11848/2-A | Lab Control Sample | 119 | 128 | | | | |
| LCSD 880-11848/3-A | Lab Control Sample Dup | 119 | 122 | | | | |
| MB 880-11848/1-A | Method Blank | 121 | 134 S1+ | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11794/5-A

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11794

| Analyte | MB | | MB | | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|---------|----------|--------|----------------|----------------|----------------|---------|
| | Result | Qualifier | RL | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Surrogate | MB | | MB | | Limits | Prepared | Analyzed | Dil Fac | |
| | %Recovery | Qualifier | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 119 | | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 11:26 | 1 | |
| 1,4-Difluorobenzene (Surr) | 106 | | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 11:26 | 1 | |

Lab Sample ID: LCS 880-11794/1-A

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11794

| Analyte | Spike | | LCS | | LCS | | %Rec. | | |
|-----------------------------|-----------|-----------|--------|-----------|--------|----------|----------|----------|--|
| | Added | Result | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09176 | | | mg/Kg | | 92 | 70 - 130 | |
| Toluene | 0.100 | 0.09873 | | | mg/Kg | | 99 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09888 | | | mg/Kg | | 99 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2005 | | | mg/Kg | | 100 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09827 | | | mg/Kg | | 98 | 70 - 130 | |
| Surrogate | LCS | | LCS | | Limits | Prepared | Analyzed | Dil Fac | |
| | %Recovery | Qualifier | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 113 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-11794/2-A

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11794

| Analyte | Spike | | LCSD | | LCSD | | %Rec. | | | RPD |
|-----------------------------|-----------|-----------|--------|-----------|--------|----------|----------|----------|-----|-------|
| | Added | Result | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.09636 | | | mg/Kg | | 96 | 70 - 130 | 5 | 35 |
| Toluene | 0.100 | 0.1045 | | | mg/Kg | | 104 | 70 - 130 | 6 | 35 |
| Ethylbenzene | 0.100 | 0.1099 | | | mg/Kg | | 110 | 70 - 130 | 11 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2151 | | | mg/Kg | | 108 | 70 - 130 | 7 | 35 |
| o-Xylene | 0.100 | 0.1103 | | | mg/Kg | | 110 | 70 - 130 | 11 | 35 |
| Surrogate | LCSD | | LCSD | | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 116 | | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 101 | | | 70 - 130 | | | | | | |

Lab Sample ID: 880-8083-A-3-B MS

Matrix: Solid

Analysis Batch: 11793

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11794

| Analyte | Sample | | Sample | | Spike | | MS | | %Rec. | |
|---------|----------|-----------|--------|-----------|---------|--------|-----------|-------|-------|----------|
| | Result | Qualifier | Result | Qualifier | Added | Result | Qualifier | Unit | D | Limits |
| Benzene | <0.00201 | U | 0.0998 | | 0.08330 | | | mg/Kg | 83 | 70 - 130 |
| Toluene | <0.00201 | U | 0.0998 | | 0.08994 | | | mg/Kg | 88 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1542-1

Project/Site: PLU 293 FLOW LINE

SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 880-8083-A-3-B MS****Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00201 | U | 0.0998 | 0.09268 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.200 | 0.1837 | | mg/Kg | | 90 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.0998 | 0.09012 | | mg/Kg | | 89 | 70 - 130 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 126 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 106 | | | 70 - 130 | | | | | |

Lab Sample ID: 880-8083-A-3-C MSD**Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. |
|-----------------------------|----------|------------------|------------------|---------------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00201 | U | 0.0996 | 0.08526 | | mg/Kg | | 85 | 70 - 130 |
| Toluene | <0.00201 | U | 0.0996 | 0.08894 | | mg/Kg | | 88 | 70 - 130 |
| Ethylbenzene | <0.00201 | U | 0.0996 | 0.09281 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.199 | 0.1748 | | mg/Kg | | 86 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.0996 | 0.08654 | | mg/Kg | | 85 | 70 - 130 |
| Surrogate | | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 122 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 103 | | | 70 - 130 | | | | | |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-11848/1-A****Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 121 | | 70 - 130 | | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| o-Terphenyl | 134 | S1+ | 70 - 130 | | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |

Lab Sample ID: LCS 880-11848/2-A**Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec. |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 986.0 | | mg/Kg | | 99 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1288 | | mg/Kg | | 129 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.

Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1

SDG: 31403236.020.0129

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-11848/2-A****Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 11848**

| Surrogate | LCS | LCS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 119 | | 70 - 130 |
| <i>o</i> -Terphenyl | 128 | | 70 - 130 |

Lab Sample ID: LCSD 880-11848/3-A**Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | | Spike | LCSD | LCSD | | | | | | | |
|--------------------------------------|--|------------------|------------------|------------------|-------------|----------|--------------|---------------|------------|--------------|--|
| | | Added | Result | Qualifier | Unit | D | %Rec. | Limits | RPD | Limit | |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 992.3 | | mg/Kg | | 99 | 70 - 130 | 1 | 20 | |
| Diesel Range Organics (Over C10-C28) | | 1000 | 1104 | | mg/Kg | | 110 | 70 - 130 | 15 | 20 | |
| Surrogate | | LCSD | LCSD | | | | | | | | |
| | | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | | 119 | | 70 - 130 | | | | | | | |
| <i>o</i> -Terphenyl | | 122 | | 70 - 130 | | | | | | | |

Lab Sample ID: 890-1544-A-1-F MS**Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | Sample | Sample | Spike | MS | MS | | | | | |
|--------------------------------------|------------------|------------------|---------------|---------------|------------------|-------------|----------|--------------|---------------|--|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec. | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 997 | 1145 | | mg/Kg | | 115 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1151 | | mg/Kg | | 115 | 70 - 130 | |
| Surrogate | | MS | MS | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 107 | | 70 - 130 | | | | | | | |
| <i>o</i> -Terphenyl | 103 | | 70 - 130 | | | | | | | |

Lab Sample ID: 890-1544-A-1-G MSD**Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | Sample | Sample | Spike | MSD | MSD | | | | | |
|--------------------------------------|------------------|------------------|---------------|---------------|------------------|-------------|----------|--------------|---------------|--|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec. | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 1000 | 1198 | | mg/Kg | | 120 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 1000 | 1163 | | mg/Kg | | 116 | 70 - 130 | |
| Surrogate | | MSD | MSD | | | | | | | |
| | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 107 | | 70 - 130 | | | | | | | |
| <i>o</i> -Terphenyl | 104 | | 70 - 130 | | | | | | | |

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1542-1

Project/Site: PLU 293 FLOW LINE

SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-11675/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 12053**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/11/21 19:54 | 1 |

Lab Sample ID: LCS 880-11675/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 12053**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|----------------|---------------|------------------|-------|---|-------|----------|
| Chloride | 250 | 249.2 | | mg/Kg | | 100 | 90 - 110 |

Lab Sample ID: LCSD 880-11675/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 12053**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|-------|----------|-------|
| Chloride | 250 | 248.0 | | mg/Kg | | 99 | 90 - 110 | 0 20 |

Lab Sample ID: 890-1542-3 MS**Client Sample ID: SW03****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 12053**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|-------|----------|-------|
| Chloride | 57.9 | | 252 | 313.9 | | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: 890-1542-3 MSD**Client Sample ID: SW03****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 12053**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|-------|----------|-------|
| Chloride | 57.9 | | 252 | 311.7 | | mg/Kg | | 101 | 90 - 110 | 1 20 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
SDG: 31403236.020.0129

GC VOA**Analysis Batch: 11793**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1542-1 | SW01 | Total/NA | Solid | 8021B | 11794 |
| 890-1542-2 | SW02 | Total/NA | Solid | 8021B | 11794 |
| 890-1542-3 | SW03 | Total/NA | Solid | 8021B | 11794 |
| 890-1542-4 | SW04 | Total/NA | Solid | 8021B | 11794 |
| MB 880-11794/5-A | Method Blank | Total/NA | Solid | 8021B | 11794 |
| LCS 880-11794/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 11794 |
| LCSD 880-11794/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 11794 |
| 880-8083-A-3-B MS | Matrix Spike | Total/NA | Solid | 8021B | 11794 |
| 880-8083-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 11794 |

Prep Batch: 11794

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1542-1 | SW01 | Total/NA | Solid | 5035 | 10 |
| 890-1542-2 | SW02 | Total/NA | Solid | 5035 | 11 |
| 890-1542-3 | SW03 | Total/NA | Solid | 5035 | 12 |
| 890-1542-4 | SW04 | Total/NA | Solid | 5035 | 13 |
| MB 880-11794/5-A | Method Blank | Total/NA | Solid | 5035 | 14 |
| LCS 880-11794/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-11794/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-8083-A-3-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-8083-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 12040

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1542-1 | SW01 | Total/NA | Solid | Total BTEX | |
| 890-1542-2 | SW02 | Total/NA | Solid | Total BTEX | |
| 890-1542-3 | SW03 | Total/NA | Solid | Total BTEX | |
| 890-1542-4 | SW04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 11800**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1542-1 | SW01 | Total/NA | Solid | 8015B NM | 11848 |
| 890-1542-2 | SW02 | Total/NA | Solid | 8015B NM | 11848 |
| 890-1542-3 | SW03 | Total/NA | Solid | 8015B NM | 11848 |
| 890-1542-4 | SW04 | Total/NA | Solid | 8015B NM | 11848 |
| MB 880-11848/1-A | Method Blank | Total/NA | Solid | 8015B NM | 11848 |
| LCS 880-11848/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 11848 |
| LCSD 880-11848/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 11848 |
| 890-1544-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 11848 |
| 890-1544-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 11848 |

Prep Batch: 11848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-1542-1 | SW01 | Total/NA | Solid | 8015NM Prep | |
| 890-1542-2 | SW02 | Total/NA | Solid | 8015NM Prep | |
| 890-1542-3 | SW03 | Total/NA | Solid | 8015NM Prep | |
| 890-1542-4 | SW04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-11848/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-11848/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

GC Semi VOA (Continued)**Prep Batch: 11848 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-11848/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1544-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1544-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 12045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1542-1 | SW01 | Total/NA | Solid | 8015 NM | |
| 890-1542-2 | SW02 | Total/NA | Solid | 8015 NM | |
| 890-1542-3 | SW03 | Total/NA | Solid | 8015 NM | |
| 890-1542-4 | SW04 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 11675**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1542-1 | SW01 | Soluble | Solid | DI Leach | |
| 890-1542-2 | SW02 | Soluble | Solid | DI Leach | |
| 890-1542-3 | SW03 | Soluble | Solid | DI Leach | |
| 890-1542-4 | SW04 | Soluble | Solid | DI Leach | |
| MB 880-11675/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-11675/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-11675/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1542-3 MS | SW03 | Soluble | Solid | DI Leach | |
| 890-1542-3 MSD | SW03 | Soluble | Solid | DI Leach | |

Analysis Batch: 12053

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1542-1 | SW01 | Soluble | Solid | 300.0 | 11675 |
| 890-1542-2 | SW02 | Soluble | Solid | 300.0 | 11675 |
| 890-1542-3 | SW03 | Soluble | Solid | 300.0 | 11675 |
| 890-1542-4 | SW04 | Soluble | Solid | 300.0 | 11675 |
| MB 880-11675/1-A | Method Blank | Soluble | Solid | 300.0 | 11675 |
| LCS 880-11675/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 11675 |
| LCSD 880-11675/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 11675 |
| 890-1542-3 MS | SW03 | Soluble | Solid | 300.0 | 11675 |
| 890-1542-3 MSD | SW03 | Soluble | Solid | 300.0 | 11675 |

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

Client Sample ID: SW01

Date Collected: 11/04/21 11:34
 Date Received: 11/05/21 14:57

Lab Sample ID: 890-1542-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11794 | 11/09/21 08:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11793 | 11/09/21 17:35 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11848 | 11/09/21 15:18 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11800 | 11/10/21 00:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11675 | 11/08/21 11:42 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12053 | 11/11/21 21:45 | CH | XEN MID |

Client Sample ID: SW02

Date Collected: 11/04/21 13:03
 Date Received: 11/05/21 14:57

Lab Sample ID: 890-1542-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11794 | 11/09/21 08:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11793 | 11/09/21 17:55 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11848 | 11/09/21 15:18 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11800 | 11/10/21 00:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11675 | 11/08/21 11:42 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12053 | 11/11/21 21:52 | CH | XEN MID |

Client Sample ID: SW03

Date Collected: 11/04/21 13:05
 Date Received: 11/05/21 14:57

Lab Sample ID: 890-1542-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11794 | 11/09/21 08:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11793 | 11/09/21 18:16 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11848 | 11/09/21 15:18 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11800 | 11/10/21 01:05 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11675 | 11/08/21 11:42 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12053 | 11/11/21 21:59 | CH | XEN MID |

Client Sample ID: SW04

Date Collected: 11/04/21 14:38
 Date Received: 11/05/21 14:57

Lab Sample ID: 890-1542-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11794 | 11/09/21 08:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11793 | 11/09/21 18:36 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

Client Sample ID: SW04**Lab Sample ID: 890-1542-4**

Matrix: Solid

Date Collected: 11/04/21 14:38
 Date Received: 11/05/21 14:57

| Prep Type | Batch | Batch | Dilution Factor | Batch | Prepared | | Lab |
|-----------|----------|-------------|-----------------|-------|----------|----------------|------------|
| | Type | Method | | Run | Number | or Analyzed | |
| Total/NA | Analysis | 8015 NM | 1 | | 12045 | 11/11/21 15:00 | AJ XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11848 | 11/09/21 15:18 | DM XEN MID |
| Total/NA | Analysis | 8015B NM | 1 | | 11800 | 11/10/21 01:27 | AJ XEN MID |
| Soluble | Leach | DI Leach | | | 11675 | 11/08/21 11:42 | CH XEN MID |
| Soluble | Analysis | 300.0 | 1 | | 12053 | 11/11/21 22:21 | CH XEN MID |

Laboratory References:

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

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Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1542-1

Project/Site: PLU 293 FLOW LINE

SDG: 31403236.020.0129

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 | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
SDG: 31403236.020.0129

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 FLOW LINE

Job ID: 890-1542-1
 SDG: 31403236.020.0129

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1542-1 | SW01 | Solid | 11/04/21 11:34 | 11/05/21 14:57 | 0 - 4 |
| 890-1542-2 | SW02 | Solid | 11/04/21 13:03 | 11/05/21 14:57 | 0 - 4 |
| 890-1542-3 | SW03 | Solid | 11/04/21 13:05 | 11/05/21 14:57 | 0 - 4 |
| 890-1542-4 | SW04 | Solid | 11/04/21 14:38 | 11/05/21 14:57 | 0 - 4 |



Chain of Custody

Work Order No.:

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) 565-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813)

| | | | |
|------------------|-----------------------------------|-------------------------|-------------------|
| Project Manager: | Tacoma Morrissey | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A St. Bldg 1, Unit 222 | Address: | 3104 E Greene St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM |

| Work Order Comments | |
|--------------------------|--|
| Program: UST/PST | <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project: | NM |
| Reporting Level: | <input type="checkbox"/> Level I <input type="checkbox"/> Level III <input type="checkbox"/> ST/STU/T <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables: | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: |

Total 200.7 / 6010 200.8 / 6

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo
TCLP / SLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti

Notice: Signature of this document and return it to Kenco or sample of service. Kenco will be liable only for the cost of samples and

service. Xenco will be liable only for the cost of samples and expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco.

| 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 negatived. | | | | | |
|--|---|--------------------------|---------------|------------------------------|---|
| Relinquished by: (Signature) | | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) |
| 1 |  | June Byers | 11/5/21 14:33 | 2 |  |
| 3 | | | | 4 |  |
| 5 | | | | 6 | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1542-1

SDG Number: 31403236.020.0129

Login Number: 1542**List Source:** Eurofins Xenco, Carlsbad**List Number:** 1**Creator:** Clifton, Cloe

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1542-1

SDG Number: 31403236.020.0129

Login Number: 1542**List Source:** Eurofins Xenco, Midland**List Number:** 2**List Creation:** 11/09/21 11:15 AM**Creator:** Lowe, Katie

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1545-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: PLU 293 Flowline

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

Attn: Kalei Jennings

Authorized for release by:
11/18/2021 7:22:40 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 293 Flowline

Laboratory Job ID: 890-1545-1
SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

Qualifiers

GC VOA

| Qualifier | Qualifier Description |
|-----------|--|
| 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.

| | |
|----------------|---|
| □ | 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 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

Job ID: 890-1545-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1545-1****Receipt**

The samples were received on 11/8/2021 1:26 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 3.2°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

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-11848/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11956 and analytical batch 880-12586 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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 293 Flowline

Job ID: 890-1545-1
 SDG: 31403236.020.0129

Client Sample ID: SW05
 Date Collected: 11/05/21 15:14
 Date Received: 11/08/21 13:26
 Sample Depth: 0 - 4

Lab Sample ID: 890-1545-1
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 97 | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |
| 1,4-Difluorobenzene (Surr) | | 94 | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 18:57 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/11/21 14:14 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 11/11/21 15:24 | 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 | | 11/09/21 15:18 | 11/10/21 02:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 11/09/21 15:18 | 11/10/21 02:35 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 11/09/21 15:18 | 11/10/21 02:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 116 | | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 02:35 | 1 |
| <i>o</i> -Terphenyl | 120 | | 70 - 130 | | | 11/09/21 15:18 | 11/10/21 02:35 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 86.0 | | 4.98 | mg/Kg | | | 11/18/21 16:29 | 1 |

Client Sample ID: SW08

Date Collected: 11/05/21 14:45
 Date Received: 11/08/21 13:26
 Sample Depth: 0 - 4

Lab Sample ID: 890-1545-2
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 121 | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 19:17 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
 SDG: 31403236.020.0129

Client Sample ID: SW08
 Date Collected: 11/05/21 14:45
 Date Received: 11/08/21 13:26
 Sample Depth: 0 - 4

Lab Sample ID: 890-1545-2
 Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Sur) | 105 | | 70 - 130 | 11/09/21 08:29 | 11/09/21 19:17 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 11/11/21 14:14 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/11/21 15:24 | 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 | | 11/09/21 15:18 | 11/10/21 02:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/09/21 15:18 | 11/10/21 02:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/09/21 15:18 | 11/10/21 02:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111 | | 70 - 130 | 11/09/21 15:18 | 11/10/21 02:58 | 1 |
| <i>o</i> -Terphenyl | 117 | | 70 - 130 | 11/09/21 15:18 | 11/10/21 02:58 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 514 | | 4.99 | mg/Kg | | | 11/18/21 16:36 | 1 |

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1545-1

Project/Site: PLU 293 Flowline

SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-8083-A-3-B MS | Matrix Spike | 126 | 106 |
| 880-8083-A-3-C MSD | Matrix Spike Duplicate | 122 | 103 |
| 890-1545-1 | SW05 | 97 | 94 |
| 890-1545-2 | SW08 | 121 | 105 |
| LCS 880-11794/1-A | Lab Control Sample | 113 | 102 |
| LCSD 880-11794/2-A | Lab Control Sample Dup | 116 | 101 |
| MB 880-11794/5-A | Method Blank | 119 | 106 |

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**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1544-A-1-F MS | Matrix Spike | 107 | 103 |
| 890-1544-A-1-G MSD | Matrix Spike Duplicate | 107 | 104 |
| 890-1545-1 | SW05 | 116 | 120 |
| 890-1545-2 | SW08 | 111 | 117 |
| LCS 880-11848/2-A | Lab Control Sample | 119 | 128 |
| LCSD 880-11848/3-A | Lab Control Sample Dup | 119 | 122 |
| MB 880-11848/1-A | Method Blank | 121 | 134 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-11794/5-A****Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | MB | | MB | | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|---------|----------|--------|----------------|----------------|----------------|---------|
| | Result | Qualifier | RL | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/09/21 08:29 | 11/09/21 11:26 | 1 |
| Surrogate | MB | | MB | | Limits | Prepared | Analyzed | Dil Fac | |
| | %Recovery | Qualifier | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 119 | | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 11:26 | 1 | |
| 1,4-Difluorobenzene (Surr) | 106 | | | 70 - 130 | | 11/09/21 08:29 | 11/09/21 11:26 | 1 | |

Lab Sample ID: LCS 880-11794/1-A**Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Spike | | LCS | | LCS | | %Rec. | | |
|-----------------------------|-----------|-----------|--------|-----------|--------|----------|----------|----------|--|
| | Added | Result | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09176 | | | mg/Kg | | 92 | 70 - 130 | |
| Toluene | 0.100 | 0.09873 | | | mg/Kg | | 99 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09888 | | | mg/Kg | | 99 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2005 | | | mg/Kg | | 100 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09827 | | | mg/Kg | | 98 | 70 - 130 | |
| Surrogate | LCS | | LCS | | Limits | Prepared | Analyzed | Dil Fac | |
| | %Recovery | Qualifier | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 113 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-11794/2-A**Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Spike | | LCSD | | LCSD | | %Rec. | | | RPD |
|-----------------------------|-----------|-----------|--------|-----------|--------|----------|----------|----------|-----|-------|
| | Added | Result | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.09636 | | | mg/Kg | | 96 | 70 - 130 | 5 | 35 |
| Toluene | 0.100 | 0.1045 | | | mg/Kg | | 104 | 70 - 130 | 6 | 35 |
| Ethylbenzene | 0.100 | 0.1099 | | | mg/Kg | | 110 | 70 - 130 | 11 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2151 | | | mg/Kg | | 108 | 70 - 130 | 7 | 35 |
| o-Xylene | 0.100 | 0.1103 | | | mg/Kg | | 110 | 70 - 130 | 11 | 35 |
| Surrogate | LCSD | | LCSD | | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 116 | | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 101 | | | 70 - 130 | | | | | | |

Lab Sample ID: 880-8083-A-3-B MS**Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Sample | | Sample | | Spike | | %Rec. | | |
|---------|----------|-----------|--------|-----------|---------|--------|-----------|-------|----|
| | Result | Qualifier | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Benzene | <0.00201 | U | 0.0998 | | 0.08330 | | | mg/Kg | 83 |
| Toluene | <0.00201 | U | 0.0998 | | 0.08994 | | | mg/Kg | 88 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 880-8083-A-3-B MS****Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00201 | U | 0.0998 | 0.09268 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.200 | 0.1837 | | mg/Kg | | 90 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.0998 | 0.09012 | | mg/Kg | | 89 | 70 - 130 |

Surrogate

| | MS | MS | |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: 880-8083-A-3-C MSD**Matrix: Solid****Analysis Batch: 11793****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 11794**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00201 | U | 0.0996 | 0.08526 | | mg/Kg | | 85 | 70 - 130 |
| Toluene | <0.00201 | U | 0.0996 | 0.08894 | | mg/Kg | | 88 | 70 - 130 |
| Ethylbenzene | <0.00201 | U | 0.0996 | 0.09281 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.199 | 0.1748 | | mg/Kg | | 86 | 70 - 130 |
| o-Xylene | <0.00201 | U | 0.0996 | 0.08654 | | mg/Kg | | 85 | 70 - 130 |

| Surrogate | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-11848/1-A****Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/09/21 15:18 | 11/09/21 20:36 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 121 | | 70 - 130 | 11/09/21 15:18 | 11/09/21 20:36 | 1 |
| o-Terphenyl | 134 | S1+ | 70 - 130 | 11/09/21 15:18 | 11/09/21 20:36 | 1 |

Lab Sample ID: LCS 880-11848/2-A**Matrix: Solid****Analysis Batch: 11800****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 11848**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec. |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 986.0 | | mg/Kg | | 99 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1288 | | mg/Kg | | 129 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

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

Lab Sample ID: LCS 880-11848/2-A

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11848

| Surrogate | LCS | LCS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 119 | | 70 - 130 |
| <i>o</i> -Terphenyl | 128 | | 70 - 130 |

Lab Sample ID: LCSD 880-11848/3-A

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11848

| Analyte | Spike | LCSD | LCSD | | %Rec. | RPD |
|--------------------------------------|-------|--------|-----------|-------|-------|----------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 992.3 | | mg/Kg | 99 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1104 | | mg/Kg | 110 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 119 | | 70 - 130 |
| <i>o</i> -Terphenyl | 122 | | 70 - 130 |

Lab Sample ID: 890-1544-A-1-F MS

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11848

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec. |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|-------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 997 | 1145 | | mg/Kg | 115 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1151 | | mg/Kg | 115 |

| Surrogate | MS | MS | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 107 | | 70 - 130 |
| <i>o</i> -Terphenyl | 103 | | 70 - 130 |

Lab Sample ID: 890-1544-A-1-G MSD

Matrix: Solid

Analysis Batch: 11800

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11848

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec. |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|-------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 1000 | 1198 | | mg/Kg | 120 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 1000 | 1163 | | mg/Kg | 116 |

| Surrogate | MSD | MSD | |
|---------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 107 | | 70 - 130 |
| <i>o</i> -Terphenyl | 104 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
 SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11956/1-A

Matrix: Solid

Analysis Batch: 12586

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 | | | 11/18/21 11:55 | 1 |

Lab Sample ID: LCS 880-11956/2-A

Matrix: Solid

Analysis Batch: 12586

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|----------------|---------------|------------------|-------|---|-------|----------|
| Chloride | 250 | 260.8 | | mg/Kg | | 104 | 90 - 110 |

Lab Sample ID: LCSD 880-11956/3-A

Matrix: Solid

Analysis Batch: 12586

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|-------|----------|-------|
| Chloride | 250 | 261.2 | | mg/Kg | | 104 | 90 - 110 | 0 20 |

Lab Sample ID: 880-8139-A-17-C MS

Matrix: Solid

Analysis Batch: 12586

Client Sample ID: Matrix Spike
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|-------|----------|-------|
| Chloride | 12600 | F1 | 5000 | 16920 | F1 | mg/Kg | | 87 | 90 - 110 | |

Lab Sample ID: 880-8139-A-17-D MSD

Matrix: Solid

Analysis Batch: 12586

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|-------|----------|-------|
| Chloride | 12600 | F1 | 5000 | 16740 | F1 | mg/Kg | | 84 | 90 - 110 | 1 20 |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
 SDG: 31403236.020.0129

GC VOA**Analysis Batch: 11793**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1545-1 | SW05 | Total/NA | Solid | 8021B | 11794 |
| 890-1545-2 | SW08 | Total/NA | Solid | 8021B | 11794 |
| MB 880-11794/5-A | Method Blank | Total/NA | Solid | 8021B | 11794 |
| LCS 880-11794/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 11794 |
| LCSD 880-11794/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 11794 |
| 880-8083-A-3-B MS | Matrix Spike | Total/NA | Solid | 8021B | 11794 |
| 880-8083-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 11794 |

Prep Batch: 11794

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1545-1 | SW05 | Total/NA | Solid | 5035 | 9 |
| 890-1545-2 | SW08 | Total/NA | Solid | 5035 | 10 |
| MB 880-11794/5-A | Method Blank | Total/NA | Solid | 5035 | 11 |
| LCS 880-11794/1-A | Lab Control Sample | Total/NA | Solid | 5035 | 12 |
| LCSD 880-11794/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | 13 |
| 880-8083-A-3-B MS | Matrix Spike | Total/NA | Solid | 5035 | 14 |
| 880-8083-A-3-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 12040

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1545-1 | SW05 | Total/NA | Solid | Total BTEX | |
| 890-1545-2 | SW08 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 11800**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1545-1 | SW05 | Total/NA | Solid | 8015B NM | 11848 |
| 890-1545-2 | SW08 | Total/NA | Solid | 8015B NM | 11848 |
| MB 880-11848/1-A | Method Blank | Total/NA | Solid | 8015B NM | 11848 |
| LCS 880-11848/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 11848 |
| LCSD 880-11848/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 11848 |
| 890-1544-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 11848 |
| 890-1544-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 11848 |

Prep Batch: 11848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1545-1 | SW05 | Total/NA | Solid | 8015NM Prep | |
| 890-1545-2 | SW08 | Total/NA | Solid | 8015NM Prep | |
| MB 880-11848/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-11848/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-11848/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1544-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1544-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 12045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1545-1 | SW05 | Total/NA | Solid | 8015 NM | |
| 890-1545-2 | SW08 | Total/NA | Solid | 8015 NM | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
 SDG: 31403236.020.0129

HPLC/IC**Leach Batch: 11956**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1545-1 | SW05 | Soluble | Solid | DI Leach | |
| 890-1545-2 | SW08 | Soluble | Solid | DI Leach | |
| MB 880-11956/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-11956/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-11956/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-8139-A-17-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-8139-A-17-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 12586

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1545-1 | SW05 | Soluble | Solid | 300.0 | 11956 |
| 890-1545-2 | SW08 | Soluble | Solid | 300.0 | 11956 |
| MB 880-11956/1-A | Method Blank | Soluble | Solid | 300.0 | 11956 |
| LCS 880-11956/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 11956 |
| LCSD 880-11956/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 11956 |
| 880-8139-A-17-C MS | Matrix Spike | Soluble | Solid | 300.0 | 11956 |
| 880-8139-A-17-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 11956 |

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
 SDG: 31403236.020.0129

Client Sample ID: SW05

Date Collected: 11/05/21 15:14
 Date Received: 11/08/21 13:26

Lab Sample ID: 890-1545-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11794 | 11/09/21 08:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11793 | 11/09/21 18:57 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:14 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:24 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11848 | 11/09/21 15:18 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11800 | 11/10/21 02:35 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11956 | 11/10/21 15:04 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12586 | 11/18/21 16:29 | CH | XEN MID |

Client Sample ID: SW08

Date Collected: 11/05/21 14:45
 Date Received: 11/08/21 13:26

Lab Sample ID: 890-1545-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11794 | 11/09/21 08:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11793 | 11/09/21 19:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:14 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:24 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11848 | 11/09/21 15:18 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11800 | 11/10/21 02:58 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11956 | 11/10/21 15:04 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12586 | 11/18/21 16:36 | 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.

Job ID: 890-1545-1

Project/Site: PLU 293 Flowline

SDG: 31403236.020.0129

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 | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flowline

Job ID: 890-1545-1
SDG: 31403236.020.0129

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1545-1 | SW05 | Solid | 11/05/21 15:14 | 11/08/21 13:26 | 0 - 4 |
| 890-1545-2 | SW08 | Solid | 11/05/21 14:45 | 11/08/21 13:26 | 0 - 4 |

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14



Chain of Custody

Work Order No

| | | | | | | |
|----------------------------|---|------------------------------------|---|------------------------------|------------------------------------|--------------------------|
| Project Manager: | Dan Moir | Bill to: (if different) | <i>ReNew Project</i> | | | |
| Company Name: | <i>WSP USA Inc. formerly DR</i> | Company Name: | XTO | | | |
| Address: | 3300 North A Street | Address: | <i>3101 E Green St</i> | | | |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | <i>Midland, TX</i> | | | |
| Phone: | 432.704.5178 | Email: | ggreen@lternv.com ; dmoir@lternv.com | | | |
| Work Order Comments | | | | | | |
| Program: | <input checked="" type="checkbox"/> USTIPST | <input type="checkbox"/> PRP | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RC | <input type="checkbox"/> Superfund | <input type="checkbox"/> |
| State of Project: | | | | | | |
| Reporting Level: | <input type="checkbox"/> Level II | <input type="checkbox"/> Level III | <input type="checkbox"/> SUST | <input type="checkbox"/> RRP | <input type="checkbox"/> Level IV | <input type="checkbox"/> |
| Deliverables: | <input type="checkbox"/> EDD | <input type="checkbox"/> | <input type="checkbox"/> ADAPT | <input type="checkbox"/> | Other: | |

| Project Name: | PL 243 Flowline | | Turn Around | ANALYSIS REQUESTS | WORKSHEET NOTES IN-NAP2126045806 66-1134243001 APL 30-015-34877 |
|--|--|---|---|---|--|
| Project Number: | 314C3236.020.0129 | | Routine <input checked="" type="checkbox"/> | | |
| P.O. Number: | | | Rush: | | |
| Sampler's Name: | Travis Lewis | | Due Date: | | |
| SAMPLE RECEIPT | Temp Blank: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Temperature (°C): | 3.4 / 3.2 | Thermometer D | | | |
| Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | THM-007 | | | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Correction Factor: -0.2 | | | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Total Containers: | | | |
| Number of Containers | | | | | |
| PA 8015) | | | | | |
| EPA 0=8021) | | | | | |
| e (EPA 300.0) | | | | | |
|  890-1545 Chain of Custody | | | | | |
| TAT starts the day received by the lab, if received by 4:30pm | | | | | |

Received by OCD: 6/27/2022 11:07:42 AM

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. All rights reserved. No part of this document may be reproduced without written consent of Xenco. This document is not a contract and is not enforceable as a contract. These terms will be enforced unless previously negotiated.

Chain of Custody Record



eurofins

Environment Testing
America

| Client Information (Sub Contract Lab) | | Sampler | Lab PM Kramer Jessica | Carrier Tracking No(s) | COC No. 890-499 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|------------------------------------|---|--|--|-------------|-------------|------------------------------------|---|-------------------|--|---------|-------|-------|-----------|-------------------|--|---------|-------|-------|-----------|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|--|--|--|--|--|
| Client Contact: Shipping/Receiving | | Phone | E-Mail jessica.kramer@eurofinset.com | State of Origin New Mexico | Page Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: Eurofins Xenco | | Accreditations Required (See note) NELAP - Louisiana NELAP - Texas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 1211 W Florida Ave Midland | | Due Date Requested 11/12/2021 | TAT Requested (days): | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City Midland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Zip TX 79701 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: 432-704-5440(Tel) | | PO#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: | | WO#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: PLU 293 Flowline | | Project # 89000004 | SSOW#: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water S=solid O=waste oil B=Brine/Anal)</th> </tr> </thead> <tbody> <tr> <td colspan="2">SW05 (890-1545-1)</td> <td>11/5/21</td> <td>15 14</td> <td>Solid</td> <td>X X X X X</td> </tr> <tr> <td colspan="2">SW08 (890-1545-2)</td> <td>11/5/21</td> <td>14 45</td> <td>Solid</td> <td>X X X X X</td> </tr> <tr> <td colspan="6" style="text-align: center;">Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No):</td> </tr> <tr> <td colspan="6" style="text-align: center;">8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride 8021B/5036FP_Calc (MOD) BTEX Total_BTEX_GCV</td> </tr> <tr> <td colspan="6" style="text-align: center;">Total Number of containers: Special Instructions/Note:</td> </tr> <tr> <td colspan="6" style="text-align: center;">1</td> </tr> </tbody></table> | | | | | | Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water S=solid O=waste oil B=Brine/Anal) | SW05 (890-1545-1) | | 11/5/21 | 15 14 | Solid | X X X X X | SW08 (890-1545-2) | | 11/5/21 | 14 45 | Solid | X X X X X | Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): | | | | | | 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride 8021B/5036FP_Calc (MOD) BTEX Total_BTEX_GCV | | | | | | Total Number of containers: Special Instructions/Note: | | | | | | 1 | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water S=solid O=waste oil B=Brine/Anal) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SW05 (890-1545-1) | | 11/5/21 | 15 14 | Solid | X X X X X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SW08 (890-1545-2) | | 11/5/21 | 14 45 | Solid | X X X X X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride 8021B/5036FP_Calc (MOD) BTEX Total_BTEX_GCV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Number of containers: Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. Any changes to accreditation status should be brought to Eurofins Xenco LLC.</p> <p>attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification | | <input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unconfirmed | | Special Instructions/QC Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable Requested I II III IV Other (Specify) | | Primary Deliverable Rank 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by <i>Dale Jeffreys</i> | | Date | Time | Method of Shipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | Company | Received by <i>J. Kramer</i> | Date/Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | Company | Received by <i>J. Kramer</i> | Date/Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals Intact: Δ Yes Δ No | | Cooler Temperature(s)°C and Other Remarks: <i>4.2/4.3</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1545-1

SDG Number: 31403236.020.0129

Login Number: 1545**List Source: Eurofins Xenco, Carlsbad****List Number: 1****Creator: Clifton, Cloe**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1545-1

SDG Number: 31403236.020.0129

Login Number: 1545**List Source: Eurofins Xenco, Midland****List Number: 2****List Creation: 11/09/21 11:14 AM****Creator: Lowe, Katie**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1556-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: PLU293 Flow Line

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

Attn: Tacoma Morrissey

Authorized for release by:
11/15/2021 3:49:03 PM

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

LINKS

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results through

TotalAccess

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Ask
The
Expert

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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: PLU293 Flow Line

Laboratory Job ID: 890-1556-1
SDG: 31403236.020.0129

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

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 |
|-----------|--|
| 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: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

Job ID: 890-1556-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1556-1

Receipt

The samples were received on 11/10/2021 11:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.6°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: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS01
 Date Collected: 11/10/21 10:30
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-1
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |
| 1,4-Difluorobenzene (Surr) | 72 | | 70 - 130 | | | 11/11/21 08:57 | 11/11/21 13:47 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/11/21 08:21 | 11/11/21 13:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 13:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 13:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | 11/11/21 08:21 | 11/11/21 13:16 | 1 |
| <i>o-Terphenyl</i> | 109 | | 70 - 130 | | | 11/11/21 08:21 | 11/11/21 13:16 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 104 | | 4.95 | mg/Kg | | | 11/13/21 15:25 | 1 |

Client Sample ID: FS02

Date Collected: 11/10/21 10:31
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-2
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 150 | S1+ | 70 - 130 | | | 11/11/21 08:57 | 11/11/21 14:07 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

Client Sample ID: FS02
Date Collected: 11/10/21 10:31
Date Received: 11/10/21 11:23
Sample Depth: 4

Lab Sample ID: 890-1556-2
Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 11/11/21 08:57 | 11/11/21 14:07 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/11/21 08:21 | 11/11/21 13:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 13:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 13:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 13:38 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 13:38 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 636 | | 4.98 | mg/Kg | | | 11/11/21 17:12 | 1 |

Client Sample ID: FS03

Lab Sample ID: 890-1556-3

Matrix: Solid

Date Collected: 11/10/21 10:32
Date Received: 11/10/21 11:23
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:27 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:27 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:27 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:27 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:27 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | 11/11/21 08:57 | 11/11/21 14:27 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 11/11/21 08:57 | 11/11/21 14:27 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/11/21 15:00 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS03
 Date Collected: 11/10/21 10:32
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-3
 Matrix: Solid

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 | | 11/11/21 08:21 | 11/11/21 13:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 13:59 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 13:59 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 13:59 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 13:59 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 447 | | 4.95 | mg/Kg | | | 11/11/21 17:19 | 1 |

Client Sample ID: FS04

Lab Sample ID: 890-1556-4
 Matrix: Solid

Date Collected: 11/10/21 10:33
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:48 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:48 | 1 |
| o-Xylene | 0.00369 | | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:48 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/11/21 08:57 | 11/11/21 14:48 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 130 | | 70 - 130 | 11/11/21 08:57 | 11/11/21 14:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 74 | | 70 - 130 | 11/11/21 08:57 | 11/11/21 14:48 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/11/21 08:21 | 11/11/21 14:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/11/21 08:21 | 11/11/21 14:21 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/11/21 08:21 | 11/11/21 14:21 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 14:21 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 14:21 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS04
 Date Collected: 11/10/21 10:33
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-4
 Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5530 | | 49.9 | mg/Kg | | | 11/11/21 17:26 | 10 |

Client Sample ID: FS05
 Date Collected: 11/10/21 10:34
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-5
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 | | | 11/11/21 08:57 | 11/11/21 15:08 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/11/21 08:21 | 11/11/21 14:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 11/11/21 08:21 | 11/11/21 14:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 11/11/21 08:21 | 11/11/21 14:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 99 | | 70 - 130 | | | 11/11/21 08:21 | 11/11/21 14:42 | 1 |
| <i>o</i> -Terphenyl | 101 | | 70 - 130 | | | 11/11/21 08:21 | 11/11/21 14:42 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 858 | | 4.98 | mg/Kg | | | 11/11/21 17:34 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS06
 Date Collected: 11/10/21 10:35
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-6
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 118 | | 70 - 130 | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |
| 1,4-Difluorobenzene (Surr) | | 104 | | 70 - 130 | | 11/11/21 08:57 | 11/11/21 15:29 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 11/11/21 14:02 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/11/21 08:21 | 11/11/21 15:04 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/11/21 08:21 | 11/11/21 15:04 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/11/21 08:21 | 11/11/21 15:04 | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | 105 | | 70 - 130 | | | 11/11/21 08:21 | 11/11/21 15:04 | 1 |
| <i>o-Terphenyl</i> | 110 | | 70 - 130 | | | 11/11/21 08:21 | 11/11/21 15:04 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 76.0 | | 4.95 | mg/Kg | | | 11/11/21 17:41 | 1 |

Client Sample ID: FS07

Date Collected: 11/10/21 10:36
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-7
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------------|------------------|------------------|---------------|---|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |
| Toluene | 0.00361 | | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 131 | S1+ | 70 - 130 | | 11/11/21 08:57 | 11/11/21 15:49 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS07
 Date Collected: 11/10/21 10:36
 Date Received: 11/10/21 11:23
 Sample Depth: 4

Lab Sample ID: 890-1556-7
 Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | 11/11/21 08:57 | 11/11/21 15:49 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 11/11/21 14:14 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/11/21 15:00 | 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 | | 11/11/21 08:21 | 11/11/21 15:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/11/21 08:21 | 11/11/21 15:25 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/11/21 08:21 | 11/11/21 15:25 | 1 |

Surrogate

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 15:25 | 1 |
| <i>o</i> -Terphenyl | 113 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 15:25 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 149 | | 5.02 | mg/Kg | | | 11/11/21 18:04 | 1 |

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Project/Site: PLU293 Flow Line

Job ID: 890-1556-1

SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1555-A-1-A MS | Matrix Spike | 117 | 113 |
| 890-1555-A-1-B MSD | Matrix Spike Duplicate | 116 | 101 |
| 890-1556-1 | FS01 | 77 | 72 |
| 890-1556-2 | FS02 | 150 S1+ | 115 |
| 890-1556-3 | FS03 | 116 | 102 |
| 890-1556-4 | FS04 | 130 | 74 |
| 890-1556-5 | FS05 | 107 | 118 |
| 890-1556-6 | FS06 | 118 | 104 |
| 890-1556-7 | FS07 | 131 S1+ | 101 |
| LCS 880-11996/1-A | Lab Control Sample | 109 | 102 |
| LCSD 880-11996/2-A | Lab Control Sample Dup | 113 | 102 |
| MB 880-11996/5-A | Method Blank | 128 | 102 |

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**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1555-A-1-D MS | Matrix Spike | 100 | 99 |
| 890-1556-1 | FS01 | 104 | 109 |
| 890-1556-2 | FS02 | 101 | 106 |
| 890-1556-3 | FS03 | 98 | 101 |
| 890-1556-4 | FS04 | 97 | 101 |
| 890-1556-5 | FS05 | 99 | 101 |
| 890-1556-6 | FS06 | 105 | 110 |
| 890-1556-7 | FS07 | 106 | 113 |
| LCS 880-11990/2-A | Lab Control Sample | 84 | 93 |
| LCSD 880-11990/3-A | Lab Control Sample Dup | 83 | 86 |
| MB 880-11990/1-A | Method Blank | 106 | 127 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------|
| | | 1CO1 | OTPH1 |
| 890-1555-A-1-E MSD | Matrix Spike Duplicate | | |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-11996/5-A****Matrix: Solid****Analysis Batch: 11997****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 11996**

| Analyte | MB | | MB | | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|---------|----------|--------|----------------|----------------|----------------|---------|
| | Result | Qualifier | RL | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/11/21 08:57 | 11/11/21 12:17 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/11/21 08:57 | 11/11/21 12:17 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/11/21 08:57 | 11/11/21 12:17 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 11/11/21 08:57 | 11/11/21 12:17 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 11/11/21 08:57 | 11/11/21 12:17 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 11/11/21 08:57 | 11/11/21 12:17 | 1 |
| Surrogate | MB | | MB | | Limits | Prepared | Analyzed | Dil Fac | |
| | %Recovery | Qualifier | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 128 | | | 70 - 130 | | 11/11/21 08:57 | 11/11/21 12:17 | 1 | |
| 1,4-Difluorobenzene (Surr) | 102 | | | 70 - 130 | | 11/11/21 08:57 | 11/11/21 12:17 | 1 | |

Lab Sample ID: LCS 880-11996/1-A**Matrix: Solid****Analysis Batch: 11997****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 11996**

| Analyte | Spike | | LCS | | Unit | D | %Rec. | | RPD |
|-----------------------------|-----------|-----------|---------|-----------|--------|----------|----------|----------|-----|
| | Added | Result | Result | Qualifier | | | %Rec | Limits | |
| Benzene | 0.100 | 0.08647 | 0.08647 | | mg/Kg | | 86 | 70 - 130 | |
| Toluene | 0.100 | 0.09691 | 0.09691 | | mg/Kg | | 97 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09479 | 0.09479 | | mg/Kg | | 95 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1868 | 0.1868 | | mg/Kg | | 93 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09441 | 0.09441 | | mg/Kg | | 94 | 70 - 130 | |
| Surrogate | LCS | | LCS | | Limits | Prepared | Analyzed | Dil Fac | |
| | %Recovery | Qualifier | | Limits | | | | | |
| 4-Bromofluorobenzene (Surr) | 109 | | | 70 - 130 | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | | 70 - 130 | | | | | |

Lab Sample ID: LCSD 880-11996/2-A**Matrix: Solid****Analysis Batch: 11997****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 11996**

| Analyte | Spike | | LCSD | | Unit | D | %Rec. | | RPD | Limit |
|-----------------------------|-----------|-----------|---------|-----------|--------|----------|----------|----------|-----|-------|
| | Added | Result | Result | Qualifier | | | %Rec | Limits | | |
| Benzene | 0.100 | 0.09356 | 0.09356 | | mg/Kg | | 94 | 70 - 130 | 8 | 35 |
| Toluene | 0.100 | 0.09366 | 0.09366 | | mg/Kg | | 94 | 70 - 130 | 3 | 35 |
| Ethylbenzene | 0.100 | 0.09798 | 0.09798 | | mg/Kg | | 98 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1966 | 0.1966 | | mg/Kg | | 98 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.100 | 0.09688 | 0.09688 | | mg/Kg | | 97 | 70 - 130 | 3 | 35 |
| Surrogate | LCSD | | LCSD | | Limits | Prepared | Analyzed | Dil Fac | | |
| | %Recovery | Qualifier | | Limits | | | | | | |
| 4-Bromofluorobenzene (Surr) | 113 | | | 70 - 130 | | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | | 70 - 130 | | | | | | |

Lab Sample ID: 890-1555-A-1-B MSD**Matrix: Solid****Analysis Batch: 11997****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 11996**

| Analyte | Sample | | Spike | | Unit | D | %Rec. | | RPD | Limit |
|---------|----------|-----------|--------|---------|-----------|---|-------|--------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | %Rec | Limits | | |
| Benzene | <0.00200 | U | 0.0994 | 0.08915 | mg/Kg | | | | | |
| Toluene | <0.00200 | U | 0.0994 | 0.09820 | mg/Kg | | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-1555-A-1-B MSD****Matrix: Solid****Analysis Batch: 11997****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 11996**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec. | Limits | RPD | RPD |
|---------------------|----------|-----------|--------|--------|-----------|-------|---|-------|--------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Ethylbenzene | <0.00200 | U | 0.0994 | 0.1013 | | mg/Kg | | | | | |
| m-Xylene & p-Xylene | <0.00399 | U | 0.199 | 0.2015 | | mg/Kg | | | | | |
| o-Xylene | <0.00200 | U | 0.0994 | 0.1024 | | mg/Kg | | | | | |

MSD MSD

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: 890-1555-A-1-A MS**Matrix: Solid****Analysis Batch: 11997****Client Sample ID: Matrix Spike****Prep Type: Total/NA****MS MS**

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-11990/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 11992****Prep Batch: 11990****MB MB**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 09:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 09:47 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/11/21 08:21 | 11/11/21 09:47 | 1 |

MB MB

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 106 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 09:47 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | 11/11/21 08:21 | 11/11/21 09:47 | 1 |

Lab Sample ID: LCS 880-11990/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 11992****Prep Batch: 11990****LCS LCS**

| Analyte | LCS | LCS | Unit | D | %Rec. | Limits |
|--------------------------------------|--------|-----------|-------|---|-------|----------|
| | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 895.5 | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 900.5 | mg/Kg | | 90 | 70 - 130 |

LCS LCS

| Surrogate | LCS | LCS | Limits |
|----------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1-Chlorooctane | 84 | | 70 - 130 |
| o-Terphenyl | 93 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-11990/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 918.9 | | mg/Kg | | 92 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 870.9 | | mg/Kg | | 87 | 70 - 130 | 3 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|----------------|----------------|----------------|-------------|
| 1-Chlorooctane | 83 | | 70 - 130 |
| o-Terphenyl | 86 | | 70 - 130 |

Lab Sample ID: 890-1555-A-1-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 1100 | | mg/Kg | | 108 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 793.8 | | mg/Kg | | 77 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|----------------|--------------|--------------|-----------|
| 1-Chlorooctane | 100 | | 70 - 130 |
| o-Terphenyl | 99 | | 70 - 130 |

Lab Sample ID: 890-1555-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 11992 **Prep Batch: 11990**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 998 | 1148 | | mg/Kg | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 998 | 849.1 | | mg/Kg | | | |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|----------------|---------------|---------------|------------|
| 1-Chlorooctane | | | |
| o-Terphenyl | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12024/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 12046

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/11/21 15:36 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: LCS 880-12024/2-A****Matrix: Solid****Analysis Batch: 12046**

Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | Limits | 5 |
|----------|-------------|------------|---------------|-------|---|------|-------|----------|---|
| Chloride | 250 | 258.0 | | mg/Kg | | 103 | | 90 - 110 | 6 |

Lab Sample ID: LCSD 880-12024/3-A**Matrix: Solid****Analysis Batch: 12046**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD | 8 |
|----------|-------------|-------------|----------------|-------|---|------|-------|----------|---|
| Chloride | 250 | 257.6 | | mg/Kg | | 103 | | 90 - 110 | 9 |

Lab Sample ID: 890-1556-6 MS**Matrix: Solid****Analysis Batch: 12046**

Client Sample ID: FS06
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | 11 |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----|
| Chloride | 76.0 | | 248 | 323.9 | | mg/Kg | | 100 | 12 |

Lab Sample ID: 890-1556-6 MSD**Matrix: Solid****Analysis Batch: 12046**

Client Sample ID: FS06
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | 13 |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-----|----|
| Chloride | 76.0 | | 248 | 317.8 | | mg/Kg | | 98 | 20 | 14 |

Lab Sample ID: MB 880-11932/1-A**Matrix: Solid****Analysis Batch: 12195**

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 | | | 11/13/21 14:26 | 1 |

Lab Sample ID: LCS 880-11932/2-A**Matrix: Solid****Analysis Batch: 12195**

Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | 9 |
|----------|-------------|------------|---------------|-------|---|------|----------|----|
| Chloride | 250 | 248.3 | | mg/Kg | | 99 | 90 - 110 | 10 |

Lab Sample ID: LCSD 880-11932/3-A**Matrix: Solid****Analysis Batch: 12195**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD | 11 |
|----------|-------------|-------------|----------------|-------|---|------|-------|-----|----|
| Chloride | 250 | 249.8 | | mg/Kg | | 100 | | 1 | 20 |

Lab Sample ID: 880-8152-A-1-B MS**Matrix: Solid****Analysis Batch: 12195**

Client Sample ID: Matrix Spike
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | 12 |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----|
| Chloride | 148 | | 253 | 404.8 | | mg/Kg | | 102 | 13 |

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1556-1

Project/Site: PLU293 Flow Line

SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: 880-8152-A-1-C MSD****Client Sample ID: Matrix Spike Duplicate****Matrix: Solid****Prep Type: Soluble****Analysis Batch: 12195**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec. | RPD | RPD | Limit |
|----------|--------|-----------|-------|--------|-----------|-------|-----|----------|-----|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | %Rec | | | |
| Chloride | 148 | | 253 | 405.8 | | mg/Kg | 102 | 90 - 110 | 0 | 20 | |

QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

GC VOA**Prep Batch: 11996**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1556-1 | FS01 | Total/NA | Solid | 5035 | |
| 890-1556-2 | FS02 | Total/NA | Solid | 5035 | |
| 890-1556-3 | FS03 | Total/NA | Solid | 5035 | |
| 890-1556-4 | FS04 | Total/NA | Solid | 5035 | |
| 890-1556-5 | FS05 | Total/NA | Solid | 5035 | |
| 890-1556-6 | FS06 | Total/NA | Solid | 5035 | |
| 890-1556-7 | FS07 | Total/NA | Solid | 5035 | |
| MB 880-11996/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-11996/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-11996/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1555-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 11997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1556-1 | FS01 | Total/NA | Solid | 8021B | 11996 |
| 890-1556-2 | FS02 | Total/NA | Solid | 8021B | 11996 |
| 890-1556-3 | FS03 | Total/NA | Solid | 8021B | 11996 |
| 890-1556-4 | FS04 | Total/NA | Solid | 8021B | 11996 |
| 890-1556-5 | FS05 | Total/NA | Solid | 8021B | 11996 |
| 890-1556-6 | FS06 | Total/NA | Solid | 8021B | 11996 |
| 890-1556-7 | FS07 | Total/NA | Solid | 8021B | 11996 |
| MB 880-11996/5-A | Method Blank | Total/NA | Solid | 8021B | 11996 |
| LCS 880-11996/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 11996 |
| LCSD 880-11996/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 11996 |
| 890-1555-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | |
| 890-1555-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 11996 |

Analysis Batch: 12040

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1556-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-1556-2 | FS02 | Total/NA | Solid | Total BTEX | |
| 890-1556-3 | FS03 | Total/NA | Solid | Total BTEX | |
| 890-1556-4 | FS04 | Total/NA | Solid | Total BTEX | |
| 890-1556-5 | FS05 | Total/NA | Solid | Total BTEX | |
| 890-1556-6 | FS06 | Total/NA | Solid | Total BTEX | |
| 890-1556-7 | FS07 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 11990**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1556-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1556-2 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-1556-3 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-1556-4 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-1556-5 | FS05 | Total/NA | Solid | 8015NM Prep | |
| 890-1556-6 | FS06 | Total/NA | Solid | 8015NM Prep | |
| 890-1556-7 | FS07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-11990/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-11990/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-11990/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

GC Semi VOA (Continued)**Prep Batch: 11990 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1555-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1555-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 11992

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1556-1 | FS01 | Total/NA | Solid | 8015B NM | 11990 |
| 890-1556-2 | FS02 | Total/NA | Solid | 8015B NM | 11990 |
| 890-1556-3 | FS03 | Total/NA | Solid | 8015B NM | 11990 |
| 890-1556-4 | FS04 | Total/NA | Solid | 8015B NM | 11990 |
| 890-1556-5 | FS05 | Total/NA | Solid | 8015B NM | 11990 |
| 890-1556-6 | FS06 | Total/NA | Solid | 8015B NM | 11990 |
| 890-1556-7 | FS07 | Total/NA | Solid | 8015B NM | 11990 |
| MB 880-11990/1-A | Method Blank | Total/NA | Solid | 8015B NM | 11990 |
| LCS 880-11990/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 11990 |
| LCSD 880-11990/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 11990 |
| 890-1555-A-1-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 11990 |
| 890-1555-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 11990 |

Analysis Batch: 12045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1556-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-1556-2 | FS02 | Total/NA | Solid | 8015 NM | |
| 890-1556-3 | FS03 | Total/NA | Solid | 8015 NM | |
| 890-1556-4 | FS04 | Total/NA | Solid | 8015 NM | |
| 890-1556-5 | FS05 | Total/NA | Solid | 8015 NM | |
| 890-1556-6 | FS06 | Total/NA | Solid | 8015 NM | |
| 890-1556-7 | FS07 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 11932**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1556-1 | FS01 | Soluble | Solid | DI Leach | |
| MB 880-11932/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-11932/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-11932/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-8152-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-8152-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 12024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1556-2 | FS02 | Soluble | Solid | DI Leach | |
| 890-1556-3 | FS03 | Soluble | Solid | DI Leach | |
| 890-1556-4 | FS04 | Soluble | Solid | DI Leach | |
| 890-1556-5 | FS05 | Soluble | Solid | DI Leach | |
| 890-1556-6 | FS06 | Soluble | Solid | DI Leach | |
| 890-1556-7 | FS07 | Soluble | Solid | DI Leach | |
| MB 880-12024/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-12024/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-12024/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1556-6 MS | FS06 | Soluble | Solid | DI Leach | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

HPLC/IC (Continued)**Leach Batch: 12024 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 890-1556-6 MSD | FS06 | Soluble | Solid | DI Leach | |

Analysis Batch: 12046

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1556-2 | FS02 | Soluble | Solid | 300.0 | 12024 |
| 890-1556-3 | FS03 | Soluble | Solid | 300.0 | 12024 |
| 890-1556-4 | FS04 | Soluble | Solid | 300.0 | 12024 |
| 890-1556-5 | FS05 | Soluble | Solid | 300.0 | 12024 |
| 890-1556-6 | FS06 | Soluble | Solid | 300.0 | 12024 |
| 890-1556-7 | FS07 | Soluble | Solid | 300.0 | 12024 |
| MB 880-12024/1-A | Method Blank | Soluble | Solid | 300.0 | 12024 |
| LCS 880-12024/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 12024 |
| LCSD 880-12024/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 12024 |
| 890-1556-6 MS | FS06 | Soluble | Solid | 300.0 | 12024 |
| 890-1556-6 MSD | FS06 | Soluble | Solid | 300.0 | 12024 |

Analysis Batch: 12195

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1556-1 | FS01 | Soluble | Solid | 300.0 | 11932 |
| MB 880-11932/1-A | Method Blank | Soluble | Solid | 300.0 | 11932 |
| LCS 880-11932/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 11932 |
| LCSD 880-11932/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 11932 |
| 880-8152-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 11932 |
| 880-8152-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 11932 |

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS01

Date Collected: 11/10/21 10:30
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 13:47 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 13:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 11932 | 11/12/21 10:53 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12195 | 11/13/21 15:25 | CH | XEN MID |

Client Sample ID: FS02

Date Collected: 11/10/21 10:31
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 14:07 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 13:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 12024 | 11/11/21 13:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12046 | 11/11/21 17:12 | SC | XEN MID |

Client Sample ID: FS03

Date Collected: 11/10/21 10:32
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 14:27 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 13:59 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 12024 | 11/11/21 13:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12046 | 11/11/21 17:19 | SC | XEN MID |

Client Sample ID: FS04

Date Collected: 11/10/21 10:33
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 14:48 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS04

Date Collected: 11/10/21 10:33
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 14:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 12024 | 11/11/21 13:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 12046 | 11/11/21 17:26 | SC | XEN MID |

Client Sample ID: FS05

Date Collected: 11/10/21 10:34
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 15:08 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 14:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 12024 | 11/11/21 13:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12046 | 11/11/21 17:34 | SC | XEN MID |

Client Sample ID: FS06

Date Collected: 11/10/21 10:35
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 15:29 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:02 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 15:04 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 12024 | 11/11/21 13:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12046 | 11/11/21 17:41 | SC | XEN MID |

Client Sample ID: FS07

Date Collected: 11/10/21 10:36
 Date Received: 11/10/21 11:23

Lab Sample ID: 890-1556-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 11996 | 11/11/21 08:57 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 11997 | 11/11/21 15:49 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 12040 | 11/11/21 14:14 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 12045 | 11/11/21 15:00 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 11990 | 11/11/21 08:21 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 11992 | 11/11/21 15:25 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

Client Sample ID: FS07**Lab Sample ID: 890-1556-7**

Matrix: Solid

Date Collected: 11/10/21 10:36
 Date Received: 11/10/21 11:23

| Prep Type | Batch | Batch | Run | Dilution | Batch | Prepared | Analyst | Lab |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| | Type | Method | | Factor | Number | or Analyzed | | |
| Soluble | Leach | DI Leach | | | 12024 | 11/11/21 13:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 12046 | 11/11/21 18:04 | SC | XEN MID |

Laboratory References:

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

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Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1556-1

Project/Site: PLU293 Flow Line

SDG: 31403236.020.0129

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 | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
SDG: 31403236.020.0129

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
 Project/Site: PLU293 Flow Line

Job ID: 890-1556-1
 SDG: 31403236.020.0129

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1556-1 | FS01 | Solid | 11/10/21 10:30 | 11/10/21 11:23 | 4 |
| 890-1556-2 | FS02 | Solid | 11/10/21 10:31 | 11/10/21 11:23 | 4 |
| 890-1556-3 | FS03 | Solid | 11/10/21 10:32 | 11/10/21 11:23 | 4 |
| 890-1556-4 | FS04 | Solid | 11/10/21 10:33 | 11/10/21 11:23 | 4 |
| 890-1556-5 | FS05 | Solid | 11/10/21 10:34 | 11/10/21 11:23 | 4 |
| 890-1556-6 | FS06 | Solid | 11/10/21 10:35 | 11/10/21 11:23 | 4 |
| 890-1556-7 | FS07 | Solid | 11/10/21 10:36 | 11/10/21 11:23 | 4 |

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Chain of Custody

Work Order No.:

| | | | |
|--|-----------------------------------|-------------------------|--|
| Project Manager: | Tacoma Morrissey | Bill To: (if different) | Adrian Baker |
| Company Name: | WSP USA Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A St. Bldg 1, Unit 222 | Address: | 3104 E Greene St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM |
| Phone: | (432) 704-5178 | Email: | travis.casey@wsp.com, katei.lennings@wsp.com, dan.moir@v |
| Work Order Comments Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: NM Reporting Level: II <input type="checkbox"/> Level III <input type="checkbox"/> ST/STU <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADA/PT <input type="checkbox"/> Other: _____ | | | |

| Project Name: | | PLU 293 Flow Line | | Turn Around | | ANALYSIS REQUEST | | Work Order Notes | |
|---|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------|--------------------------------------|------|-------------------|--|
| Project Number: | | 31403236.020.0129 | | Routine X | | | | IN:NAPP2126045826 | |
| P.O. Number: | | | | Rush: | | | | CC:1139243001 | |
| Sampler's Name: | | Travis Casey | | Due Date: | | | | API:30-015-34877 | |
| SAMPLE RECEIPT | | Temp Blank: | <input checked="" type="radio"/> Yes | No | Wet Ice: | <input checked="" type="radio"/> Yes | No | | |
| Temperature (°C): | | 9.0 | / | 9.4 | Thermometer ID | | | | |
| Received Intact: | | <input checked="" type="radio"/> Yes | No | TNU-007 | | | | | |
| Cooler Custody Seals: | | Yes | No | <input checked="" type="radio"/> N/A | Correction Factor: | | -0.2 | | |
| Sample Custody Seals: | | Yes | No | <input checked="" type="radio"/> N/A | Total Containers: | 1 | | | |
| <p>Number of Containers</p> <p>(A 8015)</p> <p>(PA 8021)</p> <p>(EPA 300.0)</p> <p>890-1556 Chain of Custody</p>  | | | | | | | | | |
| <p>TAT starts the day received by the lab, if received by 4:30pm</p> | | | | | | | | | |

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo

02 Na Sr Ti Sn U V Zn
1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document, and reimbursement of samples, constitutes a valid purchase order from client company to Xencio. Its affiliates and subcontractors. It is a standard terms and conditions of service. 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.

| 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 | | | |
|--|--------------------------|--|------------------------------|--------------------------|-----------|
| <i>Circle Method(s) and Metal(s) to be analyzed</i> | | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | | | |
| 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 |
| 1 <i>Xenco</i> | <i>Joe Cliff</i> | 11.10.21 1123 | 2 | | |
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Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins

Environment Testing
America

| | | | | | |
|--|-------|-----------------------------------|------------------------------|--|----------------------------|
| Client Information (Sub Contract Lab) | | Sampler | Lab PM | Sample Tracking No(s) | COC No. |
| Client Contact: | | Kramer, Jessica | E-Mail | Jessica.Kramer@eurofinsel.com | 890-502-1 |
| Shipping/Receiving | Phone | State of Origin | | | Page |
| Company | | New Mexico | | | 1 of 1 |
| Eurofins Xenco | | | | | |
| Address | | NE/LAP - Louisiana NE/LAP - Texas | | | |
| 1211 W Florida Ave | | 890-1556-1 | | | |
| City | | Preservation Codes | | | |
| Midland | | A HCl | M Hexane | | |
| State, Zip | | B NaOH | N None | | |
| TX 79701 | | C Zn Acetate | O AsNaC2 | | |
| Phone: | | D P Na2O4S | P Na2O3 | | |
| 432-704-5440(Tel) | | E NaHSO4 | Q Na2SO3 | | |
| Email | | F MeOH | R Na2SO4 | | |
| Project Name: | | G AmChlor | S H2SO4 | | |
| PLU293 Flow Line | | H Ascorbic Acid | T TSP Dodecylate | | |
| Site | | I Ice | U Acetone | | |
| | | J DI Water | V MCAA | | |
| | | K EDTA | W ph 4-5 | | |
| | | L EDA | Z other (specify) | | |
| SSON#: | | | | | |
| Sample Identification - Client ID (Lab ID) | | | | | |
| Sample Date | | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (H-water, S-ground, O-waste/oil, A-air) | Total Number of containers |
| | | | | | Special Instructions/Note: |
| FS01 (890-1556-1) | | 1/1/01/21 | 10 30 | Solid | X X X X X X |
| FS02 (890-1556-2) | | 1/1/01/21 | 10 31 | Mountain | X X X X X X |
| FS03 (890-1556-3) | | 1/1/01/21 | 10 32 | Solid | X X X X X X |
| FS04 (890-1556-4) | | 1/1/01/21 | 10 33 | Solid | X X X X X X |
| FS05 (890-1556-5) | | 1/1/01/21 | 10 34 | Solid | X X X X X X |
| FS06 (890-1556-6) | | 1/1/01/21 | 10 35 | Solid | X X X X X X |
| FS07 (890-1556-7) | | 1/1/01/21 | 10 36 | Solid | X X X X X X |
| Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under our 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 immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicity to Eurofins Xenco LLC. | | | | | |
| Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Delivered Requested I II III IV Other (specify) | | | | | |
| Empty Kit Relinquished by: <input type="checkbox"/> Relinquished by: <u>Joe Clark 11/10/21</u> Date/Time: <input type="text"/> Primary Deliverable Rank: 2 Special Instructions/QC Requirements: | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Date <input type="text"/> Time <input type="text"/> Method of Shipment: Received by: <u>LOTHIA R</u> Received by: <u>LOTHIA R</u> Date/Time: <input type="text"/> Date/Time: <input type="text"/> Relinquished by: <input type="text"/> Received by: <input type="text"/> Date/Time: <input type="text"/> Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No: <input type="text"/> Cooler Temperature(s) °C and Other Remarks: <input type="text"/> | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1556-1

SDG Number: 31403236.020.0129

Login Number: 1556**List Source:** Eurofins Xenco, Carlsbad**List Number:** 1**Creator:** Clifton, Cloe

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1556-1

SDG Number: 31403236.020.0129

Login Number: 1556**List Source:** Eurofins Xenco, Midland**List Number:** 2**List Creation:** 11/11/21 11:49 AM**Creator:** Kramer, Jessica

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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"). | N/A | | |



eurofins

Environment Testing
America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-1635-1

Client Project/Site: PLU 293 Flow Line

For:

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

Attn: Tacoma Morrissey

Authorized for release by:

12/10/2021 1:32:52 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 293 Flow Line

Laboratory Job ID: 890-1635-1

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

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 |
|-----------|--|
| 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 293 Flow Line

Job ID: 890-1635-1

Job ID: 890-1635-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1635-1****Receipt**

The samples were received on 11/24/2021 10:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS15 (890-1635-1), FS16 (890-1635-2), FS17 (890-1635-3) and FS14 (890-1635-4). 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-13647 and analytical batch 880-14304 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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 293 Flow Line

Job ID: 890-1635-1

Client Sample ID: FS15
Date Collected: 11/22/21 16:10
Date Received: 11/24/21 10:48
Sample Depth: 0.5

Lab Sample ID: 890-1635-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:23 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:23 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:23 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:23 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:23 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:23 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 154 | S1+ | 70 - 130 | 12/01/21 08:45 | 12/01/21 14:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | 12/01/21 08:45 | 12/01/21 14:23 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 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 | 12/02/21 11:27 | 12/03/21 10:34 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 12/02/21 11:27 | 12/03/21 10:34 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 12/02/21 11:27 | 12/03/21 10:34 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 10:34 | 1 |
| <i>o</i> -Terphenyl | 105 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 10:34 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3560 | | 25.0 | mg/Kg | | | 12/09/21 03:46 | 5 |

Client Sample ID: FS16
Date Collected: 11/22/21 16:00
Date Received: 11/24/21 10:48
Sample Depth: 0.5

Lab Sample ID: 890-1635-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:49 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:49 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:49 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:49 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:49 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 12/01/21 08:45 | 12/01/21 14:49 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 154 | S1+ | 70 - 130 | 12/01/21 08:45 | 12/01/21 14:49 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

Client Sample ID: FS16
Date Collected: 11/22/21 16:00
Date Received: 11/24/21 10:48
Sample Depth: 0.5

Lab Sample ID: 890-1635-2
Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | 12/01/21 08:45 | 12/01/21 14:49 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 69.8 | | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 11:27 | 12/03/21 11:38 | 1 |
| Diesel Range Organics (Over C10-C28) | 69.8 | | 50.0 | mg/Kg | | 12/02/21 11:27 | 12/03/21 11:38 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 11:27 | 12/03/21 11:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 95 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 11:38 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 11:38 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 991 | | 4.98 | mg/Kg | | | 12/09/21 18:22 | 1 |

Client Sample ID: FS17**Lab Sample ID: 890-1635-3**

Matrix: Solid

Date Collected: 11/22/21 16:05

Date Received: 11/24/21 10:48

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:16 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:16 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:16 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:16 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:16 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 161 | S1+ | 70 - 130 | 12/01/21 08:45 | 12/01/21 15:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 12/01/21 08:45 | 12/01/21 15:16 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 55.8 | | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

Client Sample ID: FS17
 Date Collected: 11/22/21 16:05
 Date Received: 11/24/21 10:48
 Sample Depth: 0.5

Lab Sample ID: 890-1635-3
 Matrix: Solid

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 | | 12/02/21 11:27 | 12/03/21 11:58 | 1 |
| Diesel Range Organics (Over C10-C28) | 55.8 | | 49.9 | mg/Kg | | 12/02/21 11:27 | 12/03/21 11:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 11:27 | 12/03/21 11:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 96 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 11:58 | 1 |
| o-Terphenyl | 110 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 11:58 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1500 | | 5.04 | mg/Kg | | | 12/09/21 18:47 | 1 |

Client Sample ID: FS14
 Date Collected: 11/22/21 10:00
 Date Received: 11/24/21 10:48
 Sample Depth: 0.5

Lab Sample ID: 890-1635-4
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:42 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:42 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:42 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:42 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:42 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/01/21 08:45 | 12/01/21 15:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 150 | S1+ | 70 - 130 | 12/01/21 08:45 | 12/01/21 15:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | 12/01/21 08:45 | 12/01/21 15:42 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 121 | | 49.9 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 11:27 | 12/03/21 12:19 | 1 |
| Diesel Range Organics (Over C10-C28) | 121 | | 49.9 | mg/Kg | | 12/02/21 11:27 | 12/03/21 12:19 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 11:27 | 12/03/21 12:19 | 1 |

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 83 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 12:19 | 1 |
| o-Terphenyl | 89 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 12:19 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

Client Sample ID: FS14
Date Collected: 11/22/21 10:00
Date Received: 11/24/21 10:48
Sample Depth: 0.5

Lab Sample ID: 890-1635-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6710 | | 49.9 | mg/Kg | | | 12/09/21 18:56 | 10 |

1

2

3

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14

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

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) | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|
| 890-1635-1 | FS15 | 154 S1+ | 91 | | | | | | | | | |
| 890-1635-1 MS | FS15 | 143 S1+ | 98 | | | | | | | | | |
| 890-1635-1 MSD | FS15 | 119 | 114 | | | | | | | | | |
| 890-1635-2 | FS16 | 154 S1+ | 110 | | | | | | | | | |
| 890-1635-3 | FS17 | 161 S1+ | 115 | | | | | | | | | |
| 890-1635-4 | FS14 | 150 S1+ | 111 | | | | | | | | | |
| LCS 880-13362/1-A | Lab Control Sample | 105 | 94 | | | | | | | | | |
| LCSD 880-13362/2-A | Lab Control Sample Dup | 113 | 93 | | | | | | | | | |
| MB 880-13362/5-A | Method Blank | 85 | 104 | | | | | | | | | |

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) | | | | | | | | | |
|--------------------|------------------------|------------------|-------------------|--|--|--|--|--|--|--|--|--|
| 890-1635-1 | FS15 | 91 | 105 | | | | | | | | | |
| 890-1635-1 MS | FS15 | 96 | 98 | | | | | | | | | |
| 890-1635-1 MSD | FS15 | 96 | 96 | | | | | | | | | |
| 890-1635-2 | FS16 | 95 | 107 | | | | | | | | | |
| 890-1635-3 | FS17 | 96 | 110 | | | | | | | | | |
| 890-1635-4 | FS14 | 83 | 89 | | | | | | | | | |
| LCS 880-13730/2-A | Lab Control Sample | 76 | 77 | | | | | | | | | |
| LCSD 880-13730/3-A | Lab Control Sample Dup | 94 | 97 | | | | | | | | | |
| MB 880-13730/1-A | Method Blank | 90 | 105 | | | | | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-13362/5-A****Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | MB | MB | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|-----------|-----------|-----------|--------|----------------|----------|----------------|----------|---------|
| | Result | Qualifier | | | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 | | | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 12/01/21 08:45 | | 12/01/21 13:56 | | 1 |

Lab Sample ID: LCS 880-13362/1-A**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | Spike | LCS | LCS | Result | Qualifier | Unit | D | %Rec | Limits | %Rec. |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|----------|-------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.09162 | | mg/Kg | | | 92 | | 70 - 130 | |
| Toluene | 0.100 | 0.1023 | | mg/Kg | | | 102 | | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09786 | | mg/Kg | | | 98 | | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2177 | | mg/Kg | | | 109 | | 70 - 130 | |
| o-Xylene | 0.100 | 0.1009 | | mg/Kg | | | 101 | | 70 - 130 | |
| Surrogate | LCS | LCS | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| | Result | Qualifier | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | | | | |

Lab Sample ID: LCSD 880-13362/2-A**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | Spike | LCSD | LCSD | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|--------|-----------|-----------|-----------|-----------|----------|----------|---------|----------|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 0.100 | 0.09373 | | mg/Kg | | | 94 | | 70 - 130 | 2 | 35 |
| Toluene | 0.100 | 0.1043 | | mg/Kg | | | 104 | | 70 - 130 | 2 | 35 |
| Ethylbenzene | 0.100 | 0.1040 | | mg/Kg | | | 104 | | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2247 | | mg/Kg | | | 112 | | 70 - 130 | 3 | 35 |
| o-Xylene | 0.100 | 0.1040 | | mg/Kg | | | 104 | | 70 - 130 | 3 | 35 |
| Surrogate | LCSD | LCSD | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| | Result | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-1635-1 MS**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: FS15****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | Sample | Sample | Spike | MS | MS | Result | Qualifier | Unit | D | %Rec | Limits |
|---------|----------|-----------|-------|---------|-----------|--------|-----------|------|-----|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.100 | 0.08943 | | mg/Kg | | | 89 | | 70 - 130 |
| Toluene | <0.00200 | U | 0.100 | 0.1030 | | mg/Kg | | | 103 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: 890-1635-1 MS****Matrix: Solid****Analysis Batch: 13606****Client Sample ID: FS15****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. |
|---------------------|----------|-----------|-------|---------|-----------|-------|-----|----------|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Ethylbenzene | <0.00200 | U | 0.100 | 0.09992 | | mg/Kg | 100 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00399 | U | 0.200 | 0.2191 | | mg/Kg | 110 | 70 - 130 | |
| o-Xylene | <0.00200 | U | 0.100 | 0.1033 | | mg/Kg | 103 | 70 - 130 | |

MS MS

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 143 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

Lab Sample ID: 890-1635-1 MSD**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: FS15****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. |
|---------------------|----------|-----------|--------|---------|-----------|-------|-----|----------|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Benzene | <0.00200 | U | 0.0996 | 0.08847 | | mg/Kg | 89 | 70 - 130 | |
| Toluene | <0.00200 | U | 0.0996 | 0.09828 | | mg/Kg | 99 | 70 - 130 | |
| Ethylbenzene | <0.00200 | U | 0.0996 | 0.09313 | | mg/Kg | 94 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00399 | U | 0.199 | 0.2045 | | mg/Kg | 103 | 70 - 130 | |
| o-Xylene | <0.00200 | U | 0.0996 | 0.09722 | | mg/Kg | 98 | 70 - 130 | |

MSD MSD

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 114 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-13730/1-A****Client Sample ID: Method Blank****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 13825****Prep Batch: 13730**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | 12/02/21 11:27 | 12/03/21 09:30 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 12/02/21 11:27 | 12/03/21 09:30 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 12/02/21 11:27 | 12/03/21 09:30 | | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 90 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 09:30 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | 12/02/21 11:27 | 12/03/21 09:30 | 1 |

Lab Sample ID: LCS 880-13730/2-A**Client Sample ID: Lab Control Sample****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 13825****Prep Batch: 13730**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec. |
|--------------------------------------|-------|--------|-----------|-------|----|----------|-------|
| | Added | Result | Qualifier | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 756.7 | | mg/Kg | 76 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 746.3 | | mg/Kg | 75 | 70 - 130 | |

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCS 880-13730/2-A****Matrix: Solid****Analysis Batch: 13825****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 13730**

| Surrogate | LCS | LCS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 76 | | 70 - 130 |
| <i>o</i> -Terphenyl | 77 | | 70 - 130 |

Lab Sample ID: LCSD 880-13730/3-A**Client Sample ID: Lab Control Sample Dup****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 13825****Prep Batch: 13730**

| Analyte | Spike | LCSD | LCSD | | %Rec. | RPD |
|--------------------------------------|--------------|---------------|------------------|-------------|--------------|--------------|
| | Added | Result | Qualifier | Unit | D | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 804.9 | | mg/Kg | 80 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 848.7 | | mg/Kg | 85 | 70 - 130 |

| Surrogate | LCSD | LCSD | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 94 | | 70 - 130 |
| <i>o</i> -Terphenyl | 97 | | 70 - 130 |

Lab Sample ID: 890-1635-1 MS**Client Sample ID: FS15****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 13825****Prep Batch: 13730**

| Analyte | Sample | Sample | Spike | MS | MS | | %Rec. |
|--------------------------------------|---------------|------------------|--------------|---------------|------------------|-------------|--------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 997 | 1081 | | mg/Kg | 108 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1092 | | mg/Kg | 106 |

| Surrogate | MS | MS | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 96 | | 70 - 130 |
| <i>o</i> -Terphenyl | 98 | | 70 - 130 |

Lab Sample ID: 890-1635-1 MSD**Client Sample ID: FS15****Matrix: Solid****Prep Type: Total/NA****Analysis Batch: 13825****Prep Batch: 13730**

| Analyte | Sample | Sample | Spike | MSD | MSD | | %Rec. |
|--------------------------------------|---------------|------------------|--------------|---------------|------------------|-------------|--------------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 1175 | | mg/Kg | 118 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1107 | | mg/Kg | 107 |

| Surrogate | MSD | MSD | |
|---------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 96 | | 70 - 130 |
| <i>o</i> -Terphenyl | 96 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-13647/1-A****Matrix: Solid****Analysis Batch: 14304****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 | | | 12/09/21 01:33 | 1 |

Lab Sample ID: LCS 880-13647/2-A**Matrix: Solid****Analysis Batch: 14304****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|----------------|---------------|------------------|-------|---|-------|----------|
| Chloride | 250 | 268.8 | | mg/Kg | | 108 | 90 - 110 |

Lab Sample ID: LCSD 880-13647/3-A**Matrix: Solid****Analysis Batch: 14304****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|-------|----------|-------|
| Chloride | 250 | 269.1 | | mg/Kg | | 108 | 90 - 110 | 0 20 |

Lab Sample ID: 890-1634-A-3-F MS**Matrix: Solid****Analysis Batch: 14304****Client Sample ID: Matrix Spike****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|-------|----------|
| Chloride | <5.04 | U F1 | 252 | 294.0 | F1 | mg/Kg | | 116 | 90 - 110 |

Lab Sample ID: 890-1634-A-3-G MSD**Matrix: Solid****Analysis Batch: 14304****Client Sample ID: Matrix Spike Duplicate****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|-------|----------|-------|
| Chloride | <5.04 | U F1 | 252 | 294.6 | F1 | mg/Kg | | 116 | 90 - 110 | 0 20 |

Lab Sample ID: MB 880-13649/1-A**Matrix: Solid****Analysis Batch: 14366****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 | | | 12/09/21 17:57 | 1 |

Lab Sample ID: LCS 880-13649/2-A**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|----------------|---------------|------------------|-------|---|-------|----------|
| Chloride | 250 | 257.8 | | mg/Kg | | 103 | 90 - 110 |

Lab Sample ID: LCSD 880-13649/3-A**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | Limit |
|----------|----------------|----------------|-------------------|-------|---|-------|----------|-------|
| Chloride | 250 | 256.7 | | mg/Kg | | 103 | 90 - 110 | 0 20 |

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QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: 890-1635-2 MS****Matrix: Solid****Analysis Batch: 14366****Client Sample ID: FS16****Prep Type: Soluble**

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. | Limits | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------|--|
| | Result | Qualifier | Added | Result | Qualifier | | | | 109 | | |
| Chloride | 991 | | 249 | 1261 | | mg/Kg | | | 90 - 110 | | |

Lab Sample ID: 890-1635-2 MSD**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: FS16****Prep Type: Soluble**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | Limit |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | 96 | | |
| Chloride | 991 | | 249 | 1230 | | mg/Kg | | | 90 - 110 | 3 | 20 |

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

GC VOA**Prep Batch: 13362**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1635-1 | FS15 | Total/NA | Solid | 5035 | |
| 890-1635-2 | FS16 | Total/NA | Solid | 5035 | |
| 890-1635-3 | FS17 | Total/NA | Solid | 5035 | |
| 890-1635-4 | FS14 | Total/NA | Solid | 5035 | |
| MB 880-13362/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-13362/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-13362/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1635-1 MS | FS15 | Total/NA | Solid | 5035 | |
| 890-1635-1 MSD | FS15 | Total/NA | Solid | 5035 | |

Analysis Batch: 13606

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1635-1 | FS15 | Total/NA | Solid | 8021B | 13362 |
| 890-1635-2 | FS16 | Total/NA | Solid | 8021B | 13362 |
| 890-1635-3 | FS17 | Total/NA | Solid | 8021B | 13362 |
| 890-1635-4 | FS14 | Total/NA | Solid | 8021B | 13362 |
| MB 880-13362/5-A | Method Blank | Total/NA | Solid | 8021B | 13362 |
| LCS 880-13362/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 13362 |
| LCSD 880-13362/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 13362 |
| 890-1635-1 MS | FS15 | Total/NA | Solid | 8021B | 13362 |
| 890-1635-1 MSD | FS15 | Total/NA | Solid | 8021B | 13362 |

Analysis Batch: 13868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1635-1 | FS15 | Total/NA | Solid | Total BTEX | |
| 890-1635-2 | FS16 | Total/NA | Solid | Total BTEX | |
| 890-1635-3 | FS17 | Total/NA | Solid | Total BTEX | |
| 890-1635-4 | FS14 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 13730**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1635-1 | FS15 | Total/NA | Solid | 8015NM Prep | |
| 890-1635-2 | FS16 | Total/NA | Solid | 8015NM Prep | |
| 890-1635-3 | FS17 | Total/NA | Solid | 8015NM Prep | |
| 890-1635-4 | FS14 | Total/NA | Solid | 8015NM Prep | |
| MB 880-13730/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-13730/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-13730/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1635-1 MS | FS15 | Total/NA | Solid | 8015NM Prep | |
| 890-1635-1 MSD | FS15 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 13825

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-1635-1 | FS15 | Total/NA | Solid | 8015B NM | 13730 |
| 890-1635-2 | FS16 | Total/NA | Solid | 8015B NM | 13730 |
| 890-1635-3 | FS17 | Total/NA | Solid | 8015B NM | 13730 |
| 890-1635-4 | FS14 | Total/NA | Solid | 8015B NM | 13730 |
| MB 880-13730/1-A | Method Blank | Total/NA | Solid | 8015B NM | 13730 |
| LCS 880-13730/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 13730 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

GC Semi VOA (Continued)**Analysis Batch: 13825 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-13730/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 13730 |
| 890-1635-1 MS | FS15 | Total/NA | Solid | 8015B NM | 13730 |
| 890-1635-1 MSD | FS15 | Total/NA | Solid | 8015B NM | 13730 |

Analysis Batch: 14112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1635-1 | FS15 | Total/NA | Solid | 8015 NM | |
| 890-1635-2 | FS16 | Total/NA | Solid | 8015 NM | |
| 890-1635-3 | FS17 | Total/NA | Solid | 8015 NM | |
| 890-1635-4 | FS14 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 13647**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1635-1 | FS15 | Soluble | Solid | DI Leach | |
| MB 880-13647/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-13647/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-13647/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1634-A-3-F MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-1634-A-3-G MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 13649

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1635-2 | FS16 | Soluble | Solid | DI Leach | |
| 890-1635-3 | FS17 | Soluble | Solid | DI Leach | |
| 890-1635-4 | FS14 | Soluble | Solid | DI Leach | |
| MB 880-13649/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-13649/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-13649/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1635-2 MS | FS16 | Soluble | Solid | DI Leach | |
| 890-1635-2 MSD | FS16 | Soluble | Solid | DI Leach | |

Analysis Batch: 14304

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1635-1 | FS15 | Soluble | Solid | 300.0 | 13647 |
| MB 880-13647/1-A | Method Blank | Soluble | Solid | 300.0 | 13647 |
| LCS 880-13647/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 13647 |
| LCSD 880-13647/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 13647 |
| 890-1634-A-3-F MS | Matrix Spike | Soluble | Solid | 300.0 | 13647 |
| 890-1634-A-3-G MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 13647 |

Analysis Batch: 14366

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1635-2 | FS16 | Soluble | Solid | 300.0 | 13649 |
| 890-1635-3 | FS17 | Soluble | Solid | 300.0 | 13649 |
| 890-1635-4 | FS14 | Soluble | Solid | 300.0 | 13649 |
| MB 880-13649/1-A | Method Blank | Soluble | Solid | 300.0 | 13649 |
| LCS 880-13649/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 13649 |
| LCSD 880-13649/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 13649 |
| 890-1635-2 MS | FS16 | Soluble | Solid | 300.0 | 13649 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

HPLC/IC (Continued)**Analysis Batch: 14366 (Continued)**

| Lab Sample ID 890-1635-2 MSD | Client Sample ID FS16 | Prep Type Soluble | Matrix Solid | Method 300.0 | Prep Batch 13649 |
|---------------------------------|--------------------------|----------------------|-----------------|-----------------|---------------------|
|---------------------------------|--------------------------|----------------------|-----------------|-----------------|---------------------|

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Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

Client Sample ID: FS15

Date Collected: 11/22/21 16:10
 Date Received: 11/24/21 10:48

Lab Sample ID: 890-1635-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13362 | 12/01/21 08:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/01/21 14:23 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13730 | 12/02/21 11:27 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13825 | 12/03/21 10:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13647 | 12/01/21 11:21 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 14304 | 12/09/21 03:46 | CH | XEN MID |

Client Sample ID: FS16

Date Collected: 11/22/21 16:00
 Date Received: 11/24/21 10:48

Lab Sample ID: 890-1635-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13362 | 12/01/21 08:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/01/21 14:49 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13730 | 12/02/21 11:27 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13825 | 12/03/21 11:38 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 18:22 | CH | XEN MID |

Client Sample ID: FS17

Date Collected: 11/22/21 16:05
 Date Received: 11/24/21 10:48

Lab Sample ID: 890-1635-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13362 | 12/01/21 08:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/01/21 15:16 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13730 | 12/02/21 11:27 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13825 | 12/03/21 11:58 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 18:47 | CH | XEN MID |

Client Sample ID: FS14

Date Collected: 11/22/21 10:00
 Date Received: 11/24/21 10:48

Lab Sample ID: 890-1635-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13362 | 12/01/21 08:45 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/01/21 15:42 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

Client Sample ID: FS14**Lab Sample ID: 890-1635-4**

Date Collected: 11/22/21 10:00
 Date Received: 11/24/21 10:48

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13730 | 12/02/21 11:27 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13825 | 12/03/21 12:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 14366 | 12/09/21 18:56 | CH | XEN MID |

Laboratory References:

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

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Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

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 | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1635-1

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.

Job ID: 890-1635-1

Project/Site: PLU 293 Flow Line

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1635-1 | FS15 | Solid | 11/22/21 16:10 | 11/24/21 10:48 | 0.5 |
| 890-1635-2 | FS16 | Solid | 11/22/21 16:00 | 11/24/21 10:48 | 0.5 |
| 890-1635-3 | FS17 | Solid | 11/22/21 16:05 | 11/24/21 10:48 | 0.5 |
| 890-1635-4 | FS14 | Solid | 11/22/21 10:00 | 11/24/21 10:48 | 0.5 |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1635-1

SDG Number:

Login Number: 1635**List Source: Eurofins Xenco, Carlsbad****List Number: 1****Creator: Clifton, Cloe**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1635-1

SDG Number:

Login Number: 1635**List Source:** Eurofins Xenco, Midland**List Number:** 2**List Creation:** 11/29/21 02:35 PM**Creator:** Kramer, Jessica

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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"). | N/A | | |



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Environment Testing
America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-1637-1
Client Project/Site: PLU 293 Flow Line
Revision: 1

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

Attn: Tacoma Morrissey

Authorized for release by:
1/20/2022 3:02:29 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 293 Flow Line

Laboratory Job ID: 890-1637-1

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

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 |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| 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 |

Eurofins Carlsbad

Case Narrative

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Job ID: 890-1637-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1637-1****REVISION**

The report being provided is a revision of the original report sent on 12/10/2021. The report (revision 1) is being revised due to Per client email, Corrected sample depths for FS08-FS13 to 4'.

Report revision history**Receipt**

The samples were received on 11/24/2021 10:43 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS08 (890-1637-1), FS09 (890-1637-2), FS10 (890-1637-3), FS11 (890-1637-4), FS12 (890-1637-5), FS13 (890-1637-6), FS18 (890-1637-7), FS19 (890-1637-8), FS20 (890-1637-9), FS21 (890-1637-10), FS22 (890-1637-11), FS23 (890-1637-12), FS24 (890-1637-13), FS26 (890-1637-15) and FS28 (890-1637-17). 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

Method 8015MOD_NM: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 880-13750 and analytical batch 880-13827 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-13750/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS08
Date Collected: 11/23/21 09:00
Date Received: 11/24/21 10:43
Sample Depth: 4

Lab Sample ID: 890-1637-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:54 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:54 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:54 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:54 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:54 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:54 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 164 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 03:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 03:54 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 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 | 12/02/21 14:16 | 12/03/21 12:19 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 12/02/21 14:16 | 12/03/21 12:19 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 12/02/21 14:16 | 12/03/21 12:19 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 86 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 12:19 | 1 |
| <i>o</i> -Terphenyl | 90 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 12:19 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1330 | | 5.00 | mg/Kg | | | 12/09/21 19:04 | 1 |

Client Sample ID: FS09

Date Collected: 11/23/21 09:05
Date Received: 11/24/21 10:43
Sample Depth: 4

Lab Sample ID: 890-1637-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 04:20 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 04:20 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 04:20 | | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | 11/30/21 10:13 | 12/02/21 04:20 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 04:20 | | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | 11/30/21 10:13 | 12/02/21 04:20 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 162 | S1+ | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 04:20 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS09
Date Collected: 11/23/21 09:05
Date Received: 11/24/21 10:43
Sample Depth: 4

Lab Sample ID: 890-1637-2
Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 04:20 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 12:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 12:40 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 12:40 | 1 |

Surrogate

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 12:40 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 12:40 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 103 | | 4.95 | mg/Kg | | | 12/09/21 19:13 | 1 |

Client Sample ID: FS10

Date Collected: 11/23/21 09:10

Date Received: 11/24/21 10:43

Sample Depth: 4

Lab Sample ID: 890-1637-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 04:46 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 04:46 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 04:46 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/30/21 10:13 | 12/02/21 04:46 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 04:46 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/30/21 10:13 | 12/02/21 04:46 | 1 |

Surrogate

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 162 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 04:46 | 1 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 04:46 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS10

Date Collected: 11/23/21 09:10

Date Received: 11/24/21 10:43

Sample Depth: 4

Lab Sample ID: 890-1637-3

Matrix: Solid

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 | | 12/02/21 14:16 | 12/03/21 13:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 13:01 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 13:01 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 13:01 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 13:01 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------------|----------|---------|
| Chloride | 290 | | 5.02 | mg/Kg | | 12/09/21 19:38 | | 1 |

Client Sample ID: FS11

Date Collected: 11/23/21 09:15

Date Received: 11/24/21 10:43

Sample Depth: 4

Lab Sample ID: 890-1637-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:11 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:11 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:11 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:11 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:11 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:11 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 164 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 05:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 05:11 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------------|----------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 12/03/21 10:31 | | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------------|----------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | 12/06/21 15:44 | | 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 | | 12/02/21 14:16 | 12/03/21 13:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 13:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 13:22 | 1 |

Surrogate

| | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 13:22 | 1 |
| o-Terphenyl | 88 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 13:22 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS11

Date Collected: 11/23/21 09:15
 Date Received: 11/24/21 10:43
 Sample Depth: 4

Lab Sample ID: 890-1637-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 351 | | 4.97 | mg/Kg | | | 12/09/21 19:46 | 1 |

Client Sample ID: FS12

Date Collected: 11/23/21 09:55
 Date Received: 11/24/21 10:43
 Sample Depth: 4

Lab Sample ID: 890-1637-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 156 | S1+ | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 05:37 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 13:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 13:42 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 13:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 77 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 13:42 | 1 |
| o-Terphenyl | 83 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 13:42 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 73.8 | | 4.95 | mg/Kg | | | 12/09/21 19:54 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS13
 Date Collected: 11/23/21 15:43
 Date Received: 11/24/21 10:43
 Sample Depth: 4

Lab Sample ID: 890-1637-6
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:03 | | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:03 | | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:03 | | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:03 | | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:03 | | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:03 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 157 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 06:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 06:03 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 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 | 12/02/21 14:16 | 12/03/21 14:03 | | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | 12/02/21 14:16 | 12/03/21 14:03 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 12/02/21 14:16 | 12/03/21 14:03 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 84 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 14:03 | 1 |
| <i>o</i> -Terphenyl | 94 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 14:03 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 95.3 | | 4.99 | mg/Kg | | | 12/09/21 20:03 | 1 |

Client Sample ID: FS18

Date Collected: 11/23/21 13:30
 Date Received: 11/24/21 10:43
 Sample Depth: 0.5

Lab Sample ID: 890-1637-7
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:28 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:28 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:28 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:28 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:28 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 11/30/21 10:13 | 12/02/21 06:28 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 169 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 06:28 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS18
Date Collected: 11/23/21 13:30
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-7
Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 122 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 06:28 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 60.9 | | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 14:24 | 1 |
| Diesel Range Organics (Over C10-C28) | 60.9 | | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 14:24 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 14:24 | 1 |

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 89 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 14:24 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 14:24 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3460 | | 25.0 | mg/Kg | | | 12/09/21 20:11 | 5 |

Client Sample ID: FS19**Lab Sample ID: 890-1637-8**

Date Collected: 11/23/21 13:35 Matrix: Solid

Date Received: 11/24/21 10:43

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/30/21 10:13 | 12/02/21 06:55 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/30/21 10:13 | 12/02/21 06:55 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/30/21 10:13 | 12/02/21 06:55 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 11/30/21 10:13 | 12/02/21 06:55 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/30/21 10:13 | 12/02/21 06:55 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 11/30/21 10:13 | 12/02/21 06:55 | 1 |

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 152 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 06:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 06:55 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS19

Date Collected: 11/23/21 13:35
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-8

Matrix: Solid

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 | | 12/02/21 14:16 | 12/03/21 15:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 15:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 15:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 93 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 15:06 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 15:06 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 972 | | 4.96 | mg/Kg | | | 12/09/21 20:19 | 1 |

Client Sample ID: FS20

Date Collected: 11/23/21 13:40
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 169 | S1+ | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 07:20 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 15:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 15:28 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 15:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 15:28 | 1 |
| o-Terphenyl | 91 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 15:28 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS20
Date Collected: 11/23/21 13:40
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3230 | | 25.2 | mg/Kg | | | 12/09/21 20:45 | 5 |

Client Sample ID: FS21
Date Collected: 11/23/21 13:45
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-10
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 156 | S1+ | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 07:46 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 53.9 | | 49.9 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 15:48 | 1 |
| Diesel Range Organics (Over C10-C28) | 53.9 | | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 15:48 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 15:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 90 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 15:48 | 1 |
| <i>o-Terphenyl</i> | 96 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 15:48 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1040 | | 24.9 | mg/Kg | | | 12/09/21 20:53 | 5 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS22
Date Collected: 11/23/21 14:15
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:33 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:33 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:33 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:33 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:33 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:33 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 176 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 09:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 09:33 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | 12/02/21 14:16 | 12/03/21 16:10 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 12/02/21 14:16 | 12/03/21 16:10 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 12/02/21 14:16 | 12/03/21 16:10 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 16:10 | 1 |
| <i>o</i> -Terphenyl | 103 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 16:10 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 345 | | 4.95 | mg/Kg | | | 12/09/21 21:18 | 1 |

Client Sample ID: FS23

Date Collected: 11/23/21 14:20
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-12
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:59 | | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:59 | | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:59 | | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:59 | | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:59 | | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 11/30/21 10:13 | 12/02/21 09:59 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 137 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 09:59 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS23
Date Collected: 11/23/21 14:20
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-12
Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 09:59 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 16:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 16:31 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 16:31 | 1 |

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 96 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 16:31 | 1 |
| o-Terphenyl | 103 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 16:31 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 788 | | 5.01 | mg/Kg | | | 12/09/21 21:26 | 1 |

Client Sample ID: FS24**Lab Sample ID: 890-1637-13**

Date Collected: 11/23/21 14:25

Matrix: Solid

Date Received: 11/24/21 10:43

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 | | 11/30/21 10:13 | 12/02/21 10:25 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:25 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:25 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:25 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:25 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:25 | 1 |

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 158 | S1+ | 70 - 130 | 11/30/21 10:13 | 12/02/21 10:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 116 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 10:25 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/21 15:44 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS24
 Date Collected: 11/23/21 14:25
 Date Received: 11/24/21 10:43
 Sample Depth: 0.5

Lab Sample ID: 890-1637-13
 Matrix: Solid

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 | | 12/02/21 14:16 | 12/03/21 16:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 16:52 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 16:52 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------------|----------|---------|
| Chloride | 616 | | 4.97 | mg/Kg | | 12/09/21 21:35 | | 1 |

Client Sample ID: FS25
 Date Collected: 11/23/21 14:30
 Date Received: 11/24/21 10:43
 Sample Depth: 0.5

Lab Sample ID: 890-1637-14
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 128 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 10:51 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------------|----------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | 12/03/21 10:31 | | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------------|----------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 12/06/21 15:44 | | 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 | | 12/02/21 14:16 | 12/03/21 17:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 17:13 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/02/21 14:16 | 12/03/21 17:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 17:13 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 17:13 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS25
Date Collected: 11/23/21 14:30
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-14
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1120 | | 5.00 | mg/Kg | | | 12/09/21 21:43 | 1 |

Client Sample ID: FS26
Date Collected: 11/23/21 15:50
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | | | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | | | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | | | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | | | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | | | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 160 | S1+ | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 11:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 11:18 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 60.6 | | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | | | 12/02/21 14:16 | 12/03/21 17:34 |
| Diesel Range Organics (Over C10-C28) | 60.6 | | 50.0 | mg/Kg | | | 12/02/21 14:16 | 12/03/21 17:34 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | | 12/02/21 14:16 | 12/03/21 17:34 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 94 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 17:34 | 1 |
| <i>o-Terphenyl</i> | 103 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 17:34 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1470 | | 5.00 | mg/Kg | | | 12/09/21 21:52 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS27
Date Collected: 11/23/21 15:55
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-16
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 11:44 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 11:44 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 11:44 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 11/30/21 10:13 | 12/02/21 11:44 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 11:44 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 11/30/21 10:13 | 12/02/21 11:44 | | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 76 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 11:44 | 1 |
| 1,4-Difluorobenzene (Surr) | 72 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 11:44 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 12/03/21 10:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/21 15:44 | 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 | 12/02/21 14:16 | 12/03/21 17:55 | | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 12/02/21 14:16 | 12/03/21 17:55 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 12/02/21 14:16 | 12/03/21 17:55 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 17:55 | 1 |
| <i>o</i> -Terphenyl | 99 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 17:55 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1070 | | 5.03 | mg/Kg | | | 12/09/21 22:00 | 1 |

Client Sample ID: FS28

Date Collected: 11/23/21 16:00
Date Received: 11/24/21 10:43
Sample Depth: 0.5

Lab Sample ID: 890-1637-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 12:10 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 12:10 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 12:10 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 11/30/21 10:13 | 12/02/21 12:10 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 11/30/21 10:13 | 12/02/21 12:10 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 11/30/21 10:13 | 12/02/21 12:10 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 156 | S1+ | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 12:10 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS28
 Date Collected: 11/23/21 16:00
 Date Received: 11/24/21 10:43
 Sample Depth: 0.5

Lab Sample ID: 890-1637-17
 Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 114 | | 70 - 130 | 11/30/21 10:13 | 12/02/21 12:10 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 12/03/21 10:44 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 12/06/21 15:44 | 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 | | 12/02/21 14:16 | 12/03/21 18:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 18:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/02/21 14:16 | 12/03/21 18:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 105 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 18:16 | 1 |
| <i>o</i> -Terphenyl | 122 | | 70 - 130 | 12/02/21 14:16 | 12/03/21 18:16 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 157 | | 5.04 | mg/Kg | | | 12/09/21 22:08 | 1 |

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Surrogate Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1637-1 | FS08 | 164 S1+ | 95 |
| 890-1637-1 MS | FS08 | 153 S1+ | 119 |
| 890-1637-1 MSD | FS08 | 148 S1+ | 136 S1+ |
| 890-1637-2 | FS09 | 162 S1+ | 113 |
| 890-1637-3 | FS10 | 162 S1+ | 115 |
| 890-1637-4 | FS11 | 164 S1+ | 111 |
| 890-1637-5 | FS12 | 156 S1+ | 111 |
| 890-1637-6 | FS13 | 157 S1+ | 113 |
| 890-1637-7 | FS18 | 169 S1+ | 122 |
| 890-1637-8 | FS19 | 152 S1+ | 115 |
| 890-1637-9 | FS20 | 169 S1+ | 115 |
| 890-1637-10 | FS21 | 156 S1+ | 113 |
| 890-1637-11 | FS22 | 176 S1+ | 95 |
| 890-1637-12 | FS23 | 137 S1+ | 105 |
| 890-1637-13 | FS24 | 158 S1+ | 116 |
| 890-1637-14 | FS25 | 128 | 97 |
| 890-1637-15 | FS26 | 160 S1+ | 113 |
| 890-1637-16 | FS27 | 76 | 72 |
| 890-1637-17 | FS28 | 156 S1+ | 114 |
| LCS 880-13445/1-A | Lab Control Sample | 135 S1+ | 117 |
| LCSD 880-13445/2-A | Lab Control Sample Dup | 145 S1+ | 122 |
| MB 880-13362/5-A | Method Blank | 85 | 104 |
| MB 880-13445/5-A | Method Blank | 88 | 103 |

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1634-A-1-G MS | Matrix Spike | 110 | 112 |
| 890-1634-A-1-H MSD | Matrix Spike Duplicate | 94 | 89 |
| 890-1637-1 | FS08 | 86 | 90 |
| 890-1637-2 | FS09 | 92 | 96 |
| 890-1637-3 | FS10 | 82 | 87 |
| 890-1637-4 | FS11 | 81 | 88 |
| 890-1637-5 | FS12 | 77 | 83 |
| 890-1637-6 | FS13 | 84 | 94 |
| 890-1637-7 | FS18 | 89 | 95 |
| 890-1637-8 | FS19 | 93 | 95 |
| 890-1637-9 | FS20 | 85 | 91 |
| 890-1637-10 | FS21 | 90 | 96 |
| 890-1637-11 | FS22 | 95 | 103 |
| 890-1637-12 | FS23 | 96 | 103 |
| 890-1637-13 | FS24 | 91 | 101 |
| 890-1637-14 | FS25 | 91 | 101 |

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Surrogate Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | 1CO1 (70-130) | OTPH1 (70-130) | |
|----------------------|-------------------------|---|---------------------------|--------------------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|
| | | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | | |
| 890-1637-15 | FS26 | 94 | 103 | | | | | | | | | |
| 890-1637-16 | FS27 | 89 | 99 | | | | | | | | | |
| 890-1637-17 | FS28 | 105 | 122 | | | | | | | | | |
| LCS 880-13750/2-A | Lab Control Sample | 93 | 91 | | | | | | | | | |
| LCSD 880-13750/3-A | Lab Control Sample Dup | 130 | 131 S1+ | | | | | | | | | |
| MB 880-13750/1-A | Method Blank | 81 | 93 | | | | | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

1

2

3

4

5

6

7

8

9

10

11

12

13

14

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-13362/5-A****Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 13362**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 13:56 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 13:56 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 13:56 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 12/01/21 08:45 | 12/01/21 13:56 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 12/01/21 08:45 | 12/01/21 13:56 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 12/01/21 08:45 | 12/01/21 13:56 | | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 | | | 12/01/21 08:45 | 12/01/21 13:56 | |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 12/01/21 08:45 | 12/01/21 13:56 | |

Lab Sample ID: MB 880-13445/5-A**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 13445**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|-------|----------------|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:28 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:28 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:28 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:28 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:28 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 11/30/21 10:13 | 12/02/21 03:28 | | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 03:28 | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 11/30/21 10:13 | 12/02/21 03:28 | |

Lab Sample ID: LCS 880-13445/1-A**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 13445**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. |
|-----------------------------|------------------|------------------|------------------|-------|-----|----------|--------|
| Benzene | 0.100 | 0.1064 | | mg/Kg | 106 | 70 - 130 | |
| Toluene | 0.100 | 0.1095 | | mg/Kg | 110 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1099 | | mg/Kg | 110 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2453 | | mg/Kg | 123 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1167 | | mg/Kg | 117 | 70 - 130 | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | Limits |
| 4-Bromofluorobenzene (Surr) | 135 | S1+ | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 117 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-13445/2-A**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 13445**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD |
|---------|----------------|----------------|-------------------|-------|-----|----------|-------|-------|
| | | | | | | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1070 | | mg/Kg | 107 | 70 - 130 | 1 | 35 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCSD 880-13445/2-A****Matrix: Solid****Analysis Batch: 13606****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 13445**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|-----|----------|--------|-----|-----------|
| Toluene | 0.100 | 0.1108 | | mg/Kg | 111 | 70 - 130 | | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1083 | | mg/Kg | 108 | 70 - 130 | | 1 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2385 | | mg/Kg | 119 | 70 - 130 | | 3 | 35 |
| o-Xylene | 0.100 | 0.1156 | | mg/Kg | 116 | 70 - 130 | | 1 | 35 |

| Surrogate | LCSD | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 145 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 122 | | 70 - 130 |

Lab Sample ID: 890-1637-1 MS**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: FS08****Prep Type: Total/NA****Prep Batch: 13445**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|-----|----------|-----|-----------|
| Benzene | <0.00200 | U | 0.0998 | 0.08973 | | mg/Kg | 90 | 70 - 130 | | |
| Toluene | <0.00200 | U | 0.0998 | 0.1007 | | mg/Kg | 101 | 70 - 130 | | |
| Ethylbenzene | <0.00200 | U | 0.0998 | 0.09660 | | mg/Kg | 97 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00399 | U | 0.200 | 0.1977 | | mg/Kg | 99 | 70 - 130 | | |
| o-Xylene | <0.00200 | U | 0.0998 | 0.1020 | | mg/Kg | 102 | 70 - 130 | | |

| Surrogate | MS | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 153 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 119 | | 70 - 130 |

Lab Sample ID: 890-1637-1 MSD**Matrix: Solid****Analysis Batch: 13606****Client Sample ID: FS08****Prep Type: Total/NA****Prep Batch: 13445**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|----|----------|-----|-----------|
| Benzene | <0.00200 | U | 0.0990 | 0.07902 | | mg/Kg | 80 | 70 - 130 | 13 | 35 |
| Toluene | <0.00200 | U | 0.0990 | 0.09001 | | mg/Kg | 91 | 70 - 130 | 11 | 35 |
| Ethylbenzene | <0.00200 | U | 0.0990 | 0.08820 | | mg/Kg | 89 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.198 | 0.1889 | | mg/Kg | 95 | 70 - 130 | 5 | 35 |
| o-Xylene | <0.00200 | U | 0.0990 | 0.09484 | | mg/Kg | 96 | 70 - 130 | 7 | 35 |

| Surrogate | MSD | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 148 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 136 | S1+ | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-13750/1-A****Matrix: Solid****Analysis Batch: 13827****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 13750**

| 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 | 12/02/21 14:16 | 12/03/21 09:30 | | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-13750/1-A****Matrix: Solid****Analysis Batch: 13827****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 13750**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------------|-----------------|--------------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 09:30 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/02/21 14:16 | 12/03/21 09:30 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | MB Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 81 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 09:30 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | | | 12/02/21 14:16 | 12/03/21 09:30 | 1 |

Lab Sample ID: LCS 880-13750/2-A**Matrix: Solid****Analysis Batch: 13827****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 13750**

| Analyte | LCS | LCS | Spike Added | Result | Qualifer | Unit | D | %Rec | %Rec. |
|--------------------------------------|------------------|------------------|----------------|--------|----------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 938.9 | | mg/Kg | | 94 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 910.1 | | mg/Kg | | 91 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 93 | | 70 - 130 | | | | | | |
| o-Terphenyl | 91 | | 70 - 130 | | | | | | |

Lab Sample ID: LCSD 880-13750/3-A**Matrix: Solid****Analysis Batch: 13827****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 13750**

| Analyte | LCSD | LCSD | Spike Added | Result | Qualifer | Unit | D | %Rec | %Rec. | RPD | |
|--------------------------------------|-------------------|-------------------|----------------|--------|----------|-------|---|------|----------|-----|--|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 948.6 | | mg/Kg | | 95 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 959.9 | | mg/Kg | | 96 | 70 - 130 | 5 | |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 130 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 131 | S1+ | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-1634-A-1-G MS**Matrix: Solid****Analysis Batch: 13827****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 13750**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 F2 | 997 | 1387 | F1 | mg/Kg | | 139 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 997 | 1119 | | mg/Kg | | 111 | 70 - 130 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | |
| o-Terphenyl | 112 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-1634-A-1-H MSD****Matrix: Solid****Analysis Batch: 13827****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 13750**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|--------|-----|----------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 F2 | 999 | 1089 | F2 | mg/Kg | 109 | 70 - 130 | 24 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 916.7 | | mg/Kg | 90 | 70 - 130 | 20 | 20 |
| Surrogate | %Recovery | Qualifier | | MSD | MSD | Limits | | | | |
| 1-Chlorooctane | 94 | | | 70 - 130 | | | | | | |
| o-Terphenyl | 89 | | | 70 - 130 | | | | | | |

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-13649/1-A****Matrix: Solid****Analysis Batch: 14366****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 | | | 12/09/21 17:57 | 1 |

Lab Sample ID: LCS 880-13649/2-A**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|-------------|------------|---------------|-------|-----|----------|--------|
| Chloride | 250 | 257.8 | | mg/Kg | 103 | 90 - 110 | |

Lab Sample ID: LCSD 880-13649/3-A**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|-----|----------|-----|-----------|
| Chloride | 250 | 256.7 | | mg/Kg | 103 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-1637-8 MS**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: FS19****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|-----|-----------|
| Chloride | 972 | | 248 | 1215 | | mg/Kg | 98 | 90 - 110 | | |

Lab Sample ID: 890-1637-8 MSD**Matrix: Solid****Analysis Batch: 14366****Client Sample ID: FS19****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|----|----------|-----|-----------|
| Chloride | 972 | | 248 | 1202 | | mg/Kg | 93 | 90 - 110 | 1 | 20 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

GC VOA**Prep Batch: 13362**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-13362/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 13445

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1637-1 | FS08 | Total/NA | Solid | 5035 | |
| 890-1637-2 | FS09 | Total/NA | Solid | 5035 | |
| 890-1637-3 | FS10 | Total/NA | Solid | 5035 | |
| 890-1637-4 | FS11 | Total/NA | Solid | 5035 | |
| 890-1637-5 | FS12 | Total/NA | Solid | 5035 | |
| 890-1637-6 | FS13 | Total/NA | Solid | 5035 | |
| 890-1637-7 | FS18 | Total/NA | Solid | 5035 | |
| 890-1637-8 | FS19 | Total/NA | Solid | 5035 | |
| 890-1637-9 | FS20 | Total/NA | Solid | 5035 | |
| 890-1637-10 | FS21 | Total/NA | Solid | 5035 | |
| 890-1637-11 | FS22 | Total/NA | Solid | 5035 | |
| 890-1637-12 | FS23 | Total/NA | Solid | 5035 | |
| 890-1637-13 | FS24 | Total/NA | Solid | 5035 | |
| 890-1637-14 | FS25 | Total/NA | Solid | 5035 | |
| 890-1637-15 | FS26 | Total/NA | Solid | 5035 | |
| 890-1637-16 | FS27 | Total/NA | Solid | 5035 | |
| 890-1637-17 | FS28 | Total/NA | Solid | 5035 | |
| MB 880-13445/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-13445/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-13445/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1637-1 MS | FS08 | Total/NA | Solid | 5035 | |
| 890-1637-1 MSD | FS08 | Total/NA | Solid | 5035 | |

Analysis Batch: 13606

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1637-1 | FS08 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-2 | FS09 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-3 | FS10 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-4 | FS11 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-5 | FS12 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-6 | FS13 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-7 | FS18 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-8 | FS19 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-9 | FS20 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-10 | FS21 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-11 | FS22 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-12 | FS23 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-13 | FS24 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-14 | FS25 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-15 | FS26 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-16 | FS27 | Total/NA | Solid | 8021B | 13445 |
| 890-1637-17 | FS28 | Total/NA | Solid | 8021B | 13445 |
| MB 880-13362/5-A | Method Blank | Total/NA | Solid | 8021B | 13362 |
| MB 880-13445/5-A | Method Blank | Total/NA | Solid | 8021B | 13445 |
| LCS 880-13445/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 13445 |
| LCSD 880-13445/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 13445 |
| 890-1637-1 MS | FS08 | Total/NA | Solid | 8021B | 13445 |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

GC VOA (Continued)**Analysis Batch: 13606 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|--------|------------|
| 890-1637-1 MSD | FS08 | Total/NA | Solid | 8021B | 13445 |

Analysis Batch: 13868

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1637-1 | FS08 | Total/NA | Solid | Total BTEX | 6 |
| 890-1637-2 | FS09 | Total/NA | Solid | Total BTEX | 7 |
| 890-1637-3 | FS10 | Total/NA | Solid | Total BTEX | 8 |
| 890-1637-4 | FS11 | Total/NA | Solid | Total BTEX | 9 |
| 890-1637-5 | FS12 | Total/NA | Solid | Total BTEX | 10 |
| 890-1637-6 | FS13 | Total/NA | Solid | Total BTEX | 11 |
| 890-1637-7 | FS18 | Total/NA | Solid | Total BTEX | 12 |
| 890-1637-8 | FS19 | Total/NA | Solid | Total BTEX | 13 |
| 890-1637-9 | FS20 | Total/NA | Solid | Total BTEX | 14 |
| 890-1637-10 | FS21 | Total/NA | Solid | Total BTEX | |
| 890-1637-11 | FS22 | Total/NA | Solid | Total BTEX | |
| 890-1637-12 | FS23 | Total/NA | Solid | Total BTEX | |
| 890-1637-13 | FS24 | Total/NA | Solid | Total BTEX | |
| 890-1637-14 | FS25 | Total/NA | Solid | Total BTEX | |
| 890-1637-15 | FS26 | Total/NA | Solid | Total BTEX | |
| 890-1637-16 | FS27 | Total/NA | Solid | Total BTEX | |
| 890-1637-17 | FS28 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 13750**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1637-1 | FS08 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-2 | FS09 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-3 | FS10 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-4 | FS11 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-5 | FS12 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-6 | FS13 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-7 | FS18 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-8 | FS19 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-9 | FS20 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-10 | FS21 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-11 | FS22 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-12 | FS23 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-13 | FS24 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-14 | FS25 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-15 | FS26 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-16 | FS27 | Total/NA | Solid | 8015NM Prep | |
| 890-1637-17 | FS28 | Total/NA | Solid | 8015NM Prep | |
| MB 880-13750/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-13750/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-13750/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1634-A-1-G MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1634-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

GC Semi VOA**Analysis Batch: 13827**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1637-1 | FS08 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-2 | FS09 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-3 | FS10 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-4 | FS11 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-5 | FS12 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-6 | FS13 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-7 | FS18 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-8 | FS19 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-9 | FS20 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-10 | FS21 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-11 | FS22 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-12 | FS23 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-13 | FS24 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-14 | FS25 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-15 | FS26 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-16 | FS27 | Total/NA | Solid | 8015B NM | 13750 |
| 890-1637-17 | FS28 | Total/NA | Solid | 8015B NM | 13750 |
| MB 880-13750/1-A | Method Blank | Total/NA | Solid | 8015B NM | 13750 |
| LCS 880-13750/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 13750 |
| LCSD 880-13750/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 13750 |
| 890-1634-A-1-G MS | Matrix Spike | Total/NA | Solid | 8015B NM | 13750 |
| 890-1634-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 13750 |

Analysis Batch: 14112

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1637-1 | FS08 | Total/NA | Solid | 8015 NM | |
| 890-1637-2 | FS09 | Total/NA | Solid | 8015 NM | |
| 890-1637-3 | FS10 | Total/NA | Solid | 8015 NM | |
| 890-1637-4 | FS11 | Total/NA | Solid | 8015 NM | |
| 890-1637-5 | FS12 | Total/NA | Solid | 8015 NM | |
| 890-1637-6 | FS13 | Total/NA | Solid | 8015 NM | |
| 890-1637-7 | FS18 | Total/NA | Solid | 8015 NM | |
| 890-1637-8 | FS19 | Total/NA | Solid | 8015 NM | |
| 890-1637-9 | FS20 | Total/NA | Solid | 8015 NM | |
| 890-1637-10 | FS21 | Total/NA | Solid | 8015 NM | |
| 890-1637-11 | FS22 | Total/NA | Solid | 8015 NM | |
| 890-1637-12 | FS23 | Total/NA | Solid | 8015 NM | |
| 890-1637-13 | FS24 | Total/NA | Solid | 8015 NM | |
| 890-1637-14 | FS25 | Total/NA | Solid | 8015 NM | |
| 890-1637-15 | FS26 | Total/NA | Solid | 8015 NM | |
| 890-1637-16 | FS27 | Total/NA | Solid | 8015 NM | |
| 890-1637-17 | FS28 | Total/NA | Solid | 8015 NM | |

HPLC/IC**Leach Batch: 13649**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-1637-1 | FS08 | Soluble | Solid | DI Leach | |
| 890-1637-2 | FS09 | Soluble | Solid | DI Leach | |
| 890-1637-3 | FS10 | Soluble | Solid | DI Leach | |
| 890-1637-4 | FS11 | Soluble | Solid | DI Leach | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

HPLC/IC (Continued)**Leach Batch: 13649 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1637-5 | FS12 | Soluble | Solid | DI Leach | 5 |
| 890-1637-6 | FS13 | Soluble | Solid | DI Leach | 6 |
| 890-1637-7 | FS18 | Soluble | Solid | DI Leach | 7 |
| 890-1637-8 | FS19 | Soluble | Solid | DI Leach | 8 |
| 890-1637-9 | FS20 | Soluble | Solid | DI Leach | 9 |
| 890-1637-10 | FS21 | Soluble | Solid | DI Leach | 10 |
| 890-1637-11 | FS22 | Soluble | Solid | DI Leach | 11 |
| 890-1637-12 | FS23 | Soluble | Solid | DI Leach | 12 |
| 890-1637-13 | FS24 | Soluble | Solid | DI Leach | 13 |
| 890-1637-14 | FS25 | Soluble | Solid | DI Leach | 14 |
| 890-1637-15 | FS26 | Soluble | Solid | DI Leach | |
| 890-1637-16 | FS27 | Soluble | Solid | DI Leach | |
| 890-1637-17 | FS28 | Soluble | Solid | DI Leach | |
| MB 880-13649/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-13649/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-13649/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1637-8 MS | FS19 | Soluble | Solid | DI Leach | |
| 890-1637-8 MSD | FS19 | Soluble | Solid | DI Leach | |

Analysis Batch: 14366

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1637-1 | FS08 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-2 | FS09 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-3 | FS10 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-4 | FS11 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-5 | FS12 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-6 | FS13 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-7 | FS18 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-8 | FS19 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-9 | FS20 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-10 | FS21 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-11 | FS22 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-12 | FS23 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-13 | FS24 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-14 | FS25 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-15 | FS26 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-16 | FS27 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-17 | FS28 | Soluble | Solid | 300.0 | 13649 |
| MB 880-13649/1-A | Method Blank | Soluble | Solid | 300.0 | 13649 |
| LCS 880-13649/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 13649 |
| LCSD 880-13649/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 13649 |
| 890-1637-8 MS | FS19 | Soluble | Solid | 300.0 | 13649 |
| 890-1637-8 MSD | FS19 | Soluble | Solid | 300.0 | 13649 |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS08

Date Collected: 11/23/21 09:00

Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 03:54 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 12:19 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 19:04 | CH | XEN MID |

Client Sample ID: FS09

Date Collected: 11/23/21 09:05

Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 04:20 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 12:40 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 19:13 | CH | XEN MID |

Client Sample ID: FS10

Date Collected: 11/23/21 09:10

Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 04:46 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 13:01 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 19:38 | CH | XEN MID |

Client Sample ID: FS11

Date Collected: 11/23/21 09:15

Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 05:11 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS11

Date Collected: 11/23/21 09:15
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 13:22 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 19:46 | CH | XEN MID |

Client Sample ID: FS12

Date Collected: 11/23/21 09:55
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 05:37 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 13:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 19:54 | CH | XEN MID |

Client Sample ID: FS13

Date Collected: 11/23/21 15:43
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 06:03 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 14:03 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 20:03 | CH | XEN MID |

Client Sample ID: FS18

Date Collected: 11/23/21 13:30
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 06:28 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 14:24 | AJ | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS18

Date Collected: 11/23/21 13:30
Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 14366 | 12/09/21 20:11 | CH | XEN MID |

Client Sample ID: FS19

Date Collected: 11/23/21 13:35
Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-8

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 06:55 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 15:06 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 20:19 | CH | XEN MID |

Client Sample ID: FS20

Date Collected: 11/23/21 13:40
Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-9

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 07:20 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 15:28 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 14366 | 12/09/21 20:45 | CH | XEN MID |

Client Sample ID: FS21

Date Collected: 11/23/21 13:45
Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-10

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 07:46 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 15:48 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 14366 | 12/09/21 20:53 | CH | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS22

Date Collected: 11/23/21 14:15
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-11

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 09:33 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 16:10 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 21:18 | CH | XEN MID |

Client Sample ID: FS23

Date Collected: 11/23/21 14:20
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-12

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 09:59 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 16:31 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 21:26 | CH | XEN MID |

Client Sample ID: FS24

Date Collected: 11/23/21 14:25
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-13

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 10:25 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 16:52 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 21:35 | CH | XEN MID |

Client Sample ID: FS25

Date Collected: 11/23/21 14:30
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-14

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 10:51 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS25

Date Collected: 11/23/21 14:30
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-14

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 17:13 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 21:43 | CH | XEN MID |

Client Sample ID: FS26

Date Collected: 11/23/21 15:50
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-15

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 11:18 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 17:34 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 21:52 | CH | XEN MID |

Client Sample ID: FS27

Date Collected: 11/23/21 15:55
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-16

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 11:44 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:31 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 17:55 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 22:00 | CH | XEN MID |

Client Sample ID: FS28

Date Collected: 11/23/21 16:00
 Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-17

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 13445 | 11/30/21 10:13 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 13606 | 12/02/21 12:10 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 13868 | 12/03/21 10:44 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 14112 | 12/06/21 15:44 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 13750 | 12/02/21 14:16 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 13827 | 12/03/21 18:16 | AJ | XEN MID |

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Client Sample ID: FS28
Date Collected: 11/23/21 16:00
Date Received: 11/24/21 10:43

Lab Sample ID: 890-1637-17
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Soluble | Leach | DI Leach | | | 13649 | 12/01/21 11:25 | CA | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 14366 | 12/09/21 22:08 | CH | XEN MID |

Laboratory References:

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

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Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

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Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1637-1

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc.

Job ID: 890-1637-1

Project/Site: PLU 293 Flow Line

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|----|
| 890-1637-1 | FS08 | Solid | 11/23/21 09:00 | 11/24/21 10:43 | 4 | 1 |
| 890-1637-2 | FS09 | Solid | 11/23/21 09:05 | 11/24/21 10:43 | 4 | 2 |
| 890-1637-3 | FS10 | Solid | 11/23/21 09:10 | 11/24/21 10:43 | 4 | 3 |
| 890-1637-4 | FS11 | Solid | 11/23/21 09:15 | 11/24/21 10:43 | 4 | 4 |
| 890-1637-5 | FS12 | Solid | 11/23/21 09:55 | 11/24/21 10:43 | 4 | 5 |
| 890-1637-6 | FS13 | Solid | 11/23/21 15:43 | 11/24/21 10:43 | 4 | 6 |
| 890-1637-7 | FS18 | Solid | 11/23/21 13:30 | 11/24/21 10:43 | 0.5 | 7 |
| 890-1637-8 | FS19 | Solid | 11/23/21 13:35 | 11/24/21 10:43 | 0.5 | 8 |
| 890-1637-9 | FS20 | Solid | 11/23/21 13:40 | 11/24/21 10:43 | 0.5 | 9 |
| 890-1637-10 | FS21 | Solid | 11/23/21 13:45 | 11/24/21 10:43 | 0.5 | 10 |
| 890-1637-11 | FS22 | Solid | 11/23/21 14:15 | 11/24/21 10:43 | 0.5 | 11 |
| 890-1637-12 | FS23 | Solid | 11/23/21 14:20 | 11/24/21 10:43 | 0.5 | 12 |
| 890-1637-13 | FS24 | Solid | 11/23/21 14:25 | 11/24/21 10:43 | 0.5 | 13 |
| 890-1637-14 | FS25 | Solid | 11/23/21 14:30 | 11/24/21 10:43 | 0.5 | 14 |
| 890-1637-15 | FS26 | Solid | 11/23/21 15:50 | 11/24/21 10:43 | 0.5 | |
| 890-1637-16 | FS27 | Solid | 11/23/21 15:55 | 11/24/21 10:43 | 0.5 | |
| 890-1637-17 | FS28 | Solid | 11/23/21 16:00 | 11/24/21 10:43 | 0.5 | |



Chain of Custody

Work Order No.:

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) 585-3343 Lubbock, TX (806) 794-1286
Ft. Lauderdale, FL (305) 737-7700 Phoenix, AZ (602) 255-9000 Atlanta, GA (770) 448-8800 Tampa Fl (813) 626-1000

| Work Order Comments | | | | | |
|--------------------------|------------------------------------|--------------------------------------|------------------------------|------------------------------------|--------------------------|
| Program: UST/PST | <input type="checkbox"/> PRP | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RC | <input type="checkbox"/> Superfund | <input type="checkbox"/> |
| State of Project: | | | | | |
| Reporting: Level II | <input type="checkbox"/> Level III | <input type="checkbox"/> BST/UST | <input type="checkbox"/> RRP | <input type="checkbox"/> Level IV | <input type="checkbox"/> |
| Deliverables: EDD | <input type="checkbox"/> | ADAPT | <input type="checkbox"/> | Other: | |

| | | | | | |
|---|--|--------------------|---|------------------|---|
| Project Name: | PLU 293 Flow Line | | Turn Around | ANALYSIS REQUEST | Work Order Notes Incident #: NAPP2126045826 API:30015-34877 (Poker Lake Unit #261) |
| Project Number: | | | Routine <input checked="" type="checkbox"/> | | |
| P.O. Number: | CC: 1139243001 | | Rush: | | |
| Sampler's Name: | Conner Shore | | Due Date: | | |
| SAMPLE RECEIPT | Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | | | <i>15</i> | | Thermometer ID |
| Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | |
| Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | Correction Factor: | | | |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | Total Containers: | | | |
| Number of Containers | | | | | |
| (EPA 8015) | | | | | |
| (EPA 0=8021) | | | | | |
| (EPA 300.0) | | | | | |
| TAT starts the day received by the lab, if received by 4:30pm | | | | | |

Total 200.7 / 6010 200.8 / 6020:

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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.

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)

3

5

Chain of Custody Record



eurofins

Environment Testing
America

| | | | |
|--|---------|---|--------------------------------------|
| Client Information (Sub Contract Lab) | Sampler | Lab PM Kramer Jessica | Carrier Tracking No(s): 890-523-1 |
| Client Contact: Shipping/Receiving | Phone | E-Mail jessica.kramer@eurofinset.com | State of Origin New Mexico |
| Company Eurofins Xenco | | | Page Page 1 of 2 |

| | | | |
|--|-----------------------------|----------------------|---|
| Address 1211 W Florida Ave | Date Requested 12/3/2021 | TAT Requested (days) | Accreditation Required (See note): NELAP - Louisiana NELAP - Texas |
| City Midland | | | |
| State ZIP: TX 79701 | | | |
| Phone 432-704-5440(Tel) | PO#: | | |
| Email Project Name PLU 293 Flow Line | WO#: | | |
| Site Site | Project #: 89000004 | SSOW#: | |

Analysis Requested

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Preservation Codes

890-1637-1

| | |
|-----------------|---------------------|
| A HCl | M Hexane |
| B NaOH | N None |
| C Zn Acetate | O AstaO2 |
| D Nitric Acid | P NaO4S |
| E Na2SO4 | Q Na2SO3 |
| F MeOH | R Na2S2O3 |
| G Amchlor | S H2SO4 |
| H Ascorbic Acid | T TSP Dodecahydrate |
| I Ice | U Acetone |
| J DI Water | V MCAA |
| K EDTA | W pH 4.5 |
| L EDA | Z other (specify) |
| Other: | |

Total Number of containers

1

Special Instructions/Note:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) S=solid L=liquid A=air | Matrix (H=water S=solid O=waste/oil, B=biological A=air) | Preservation Code: | Field Filtered | Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of containers | Special Instructions/Note: |
|--|-------------|-------------|--|---|--------------------|----------------|--------------------|---|----------------------------|----------------------------|
| FS08 (890-1637-1) | 1/12/21 | 09 00 | Solid | X | X | X | X | 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH | | |
| FS09 (890-1637-2) | 1/12/21 | 09 05 | Solid | X | X | X | X | 8015MOD_Calc | | |
| FS10 (890-1637-3) | 1/12/21 | 09 10 | Solid | X | X | X | X | 300_ORGFM_28D/DI_LEACH Chloride | | |
| FS11 (890-1637-4) | 1/12/21 | 09 15 | Solid | X | X | X | X | 8021B/6035FP_Calc (MOD) BTEX | | |
| FS12 (890-1637-5) | 1/12/21 | 09 55 | Solid | X | X | X | X | Total_BTEX_GCV | | |
| FS13 (890-1637-6) | 1/12/21 | 15 43 | Solid | X | X | X | X | | | |
| FS18 (890-1637-7) | 1/12/21 | 13 30 | Solid | X | X | X | X | | | |
| FS19 (890-1637-8) | 1/12/21 | 13 35 | Solid | X | X | X | X | | | |
| FS20 (890-1637-9) | 1/12/21 | 13 40 | Solid | X | X | X | X | | | |

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analysis & accreditation 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/testmatrix 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 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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Special Instructions/QC Requirements

Empty Kit Reinquisition by

Date/Time
11/29/21

Company

Received by
<img alt

Chain of Custody Record

eurofins

Environment Testing
America

| Client Information (Sub Contract Lab) | | Sampler | Lab PM Kramer, Jessica | Carrier Tracking No(s.) | CCG No 890-523-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--|--|---------------------------------|---------------------|-------------|-------------|---------------------------------|--|--------------------|--|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|--------------------|----------|-------|---|---|---|
| Shipping/Receiving | | Phone | E-Mail jessica.kramer@eurofinset.com | State of Origin New Mexico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address 1211 W Florida Ave | | Due Date Requested 12/3/2021 | TAT Requested (days) PO#: | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City Midland | | Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Zip: TX, 79701 | | 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH 8015MOD_Calc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone 432-704-5440(Tel) | | 300_ORGFM_28D/DI_LEACH Chloride 8021B/6035FP_Calc (MOD) BTEX Total_BTEX_GCV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email Project Name: PLU 293 Flow Line | | Total Number of containers Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Site | | SSOW# Project #: 80000004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Sample Identification - Client ID (Lab ID)</p> <table border="1"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (H=water S=solid, O=soil, A=Air)</th> <th>Preservation Code:</th> <th></th> </tr> </thead> <tbody> <tr> <td>FS21 (890-1637-10)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS22 (890-1637-11)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS23 (890-1637-12)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS24 (890-1637-13)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS25 (890-1637-14)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS26 (890-1637-15)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS27 (890-1637-16)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>FS28 (890-1637-17)</td> <td>11/23/21</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table> | | | | | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (H=water S=solid, O=soil, A=Air) | Preservation Code: | | FS21 (890-1637-10) | 11/23/21 | Solid | X | X | X | FS22 (890-1637-11) | 11/23/21 | Solid | X | X | X | FS23 (890-1637-12) | 11/23/21 | Solid | X | X | X | FS24 (890-1637-13) | 11/23/21 | Solid | X | X | X | FS25 (890-1637-14) | 11/23/21 | Solid | X | X | X | FS26 (890-1637-15) | 11/23/21 | Solid | X | X | X | FS27 (890-1637-16) | 11/23/21 | Solid | X | X | X | FS28 (890-1637-17) | 11/23/21 | Solid | X | X | X |
| Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (H=water S=solid, O=soil, A=Air) | Preservation Code: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS21 (890-1637-10) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS22 (890-1637-11) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS23 (890-1637-12) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS24 (890-1637-13) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS25 (890-1637-14) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS26 (890-1637-15) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS27 (890-1637-16) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FS28 (890-1637-17) | 11/23/21 | Solid | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analysis & 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 or 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.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification | | <input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unconfirmed | | Special Instructions/QC Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable Requested I II III IV Other (specify) | | Primary Deliverable Rank 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by <i>J. Doe</i> | | Date | Time | Received by <i>M. Mullen</i> | Method of Shipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | Company | Received by | Date/Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by | | Date/Time | Company | Received by | Date/Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals intact: △ Yes △ No | | Cooler Temperature(s) °C and Other Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1637-1

SDG Number:

Login Number: 1637**List Source: Eurofins Carlsbad****List Number: 1****Creator: Clifton, Cloe****Question****Answer****Comment**

| | | | |
|--|------|--|----|
| The cooler's custody seal, if present, is intact. | True | | 6 |
| Sample custody seals, if present, are intact. | True | | 7 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 8 |
| Samples were received on ice. | True | | 9 |
| Cooler Temperature is acceptable. | True | | 10 |
| Cooler Temperature is recorded. | True | | 11 |
| COC is present. | True | | 12 |
| COC is filled out in ink and legible. | True | | 13 |
| COC is filled out with all pertinent information. | True | | 14 |
| 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: 890-1637-1

SDG Number:

Login Number: 1637**List Source: Eurofins Midland****List Number: 2****List Creation: 11/29/21 02:35 PM****Creator: Kramer, Jessica**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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"). | N/A | | |



Environment Testing
America



ANALYTICAL REPORT

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

Laboratory Job ID: 890-1805-1
Client Project/Site: plu 293 flow line
Revision: 1

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

Attn: Tacoma Morrissey

Authorized for release by:
1/20/2022 2:57:39 PM
Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

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 293 flow line

Laboratory Job ID: 890-1805-1

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

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 |
|-----------|--|
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| 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 293 flow line

Job ID: 890-1805-1

Job ID: 890-1805-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1805-1****Comments**

No additional comments.

Revision

The report being provided is a revision of the original report sent on 1/10/2022. The report (revision 1) is being revised due to: Per client email, corrected sample depth for FS14A to 1.

Receipt

The samples were received on 1/6/2022 1:42 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8° C.

GC VOA

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

GC Semi VOA

Method 8015B NM: The CCV was biased slightly low for the gasoline hydrocarbon ranges however another acceptable CCV for this range was analyzed within the 12 hour window, therefore, the data was qualified and reported.

(CCV 880-16215/19)

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16226 and analytical batch 880-16239 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Client Sample ID: SW06
Date Collected: 01/05/22 12:00
Date Received: 01/06/22 13:42
Sample Depth: 0 - 3

Lab Sample ID: 890-1805-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:21 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:21 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:21 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:21 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:21 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:21 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 113 | | 70 - 130 | | 01/07/22 08:00 | 01/07/22 13:21 | 1 |
| 1,4-Difluorobenzene (Surr) | | 85 | | 70 - 130 | | 01/07/22 08:00 | 01/07/22 13:21 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 01/07/22 14:59 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 91.2 | | 49.9 | mg/Kg | | | 01/10/22 12:40 | 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 | 01/07/22 08:53 | 01/07/22 13:44 | | 1 |
| Diesel Range Organics (Over C10-C28) | 91.2 | | 49.9 | mg/Kg | 01/07/22 08:53 | 01/07/22 13:44 | | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | 01/07/22 08:53 | 01/07/22 13:44 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | 85 | | 70 - 130 | | 01/07/22 08:53 | 01/07/22 13:44 | | 1 |
| <i>o-Terphenyl</i> | 92 | | 70 - 130 | | 01/07/22 08:53 | 01/07/22 13:44 | | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1160 | | 5.05 | mg/Kg | | | 01/07/22 14:38 | 1 |

Client Sample ID: SW07
Date Collected: 01/05/22 12:05
Date Received: 01/06/22 13:42
Sample Depth: 0 - 3

Lab Sample ID: 890-1805-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:41 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:41 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:41 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:41 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:41 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 01/07/22 08:00 | 01/07/22 13:41 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 118 | | 70 - 130 | | 01/07/22 08:00 | 01/07/22 13:41 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Client Sample ID: SW07
Date Collected: 01/05/22 12:05
Date Received: 01/06/22 13:42
Sample Depth: 0 - 3

Lab Sample ID: 890-1805-2
Matrix: Solid

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

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 13:41 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 01/07/22 14:59 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 01/10/22 12:40 | 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 | | 01/07/22 08:53 | 01/07/22 14:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 01/07/22 08:53 | 01/07/22 14:24 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 01/07/22 08:53 | 01/07/22 14:24 | 1 |

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 130 | 01/07/22 08:53 | 01/07/22 14:24 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | 01/07/22 08:53 | 01/07/22 14:24 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 618 | | 4.98 | mg/Kg | | | 01/07/22 14:46 | 1 |

Client Sample ID: FS14A**Lab Sample ID: 890-1805-3**

Date Collected: 01/05/22 12:10

Matrix: Solid

Date Received: 01/06/22 13:42

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 | | 01/07/22 08:00 | 01/07/22 14:01 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:01 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:01 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:01 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:01 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:01 | 1 |

| Analyte | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 127 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 14:01 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 14:01 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 01/07/22 14:59 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 01/10/22 12:40 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Client Sample ID: FS14A
Date Collected: 01/05/22 12:10
Date Received: 01/06/22 13:42
Sample Depth: 1

Lab Sample ID: 890-1805-3
Matrix: Solid

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 | | 01/07/22 08:53 | 01/07/22 14:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 14:49 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 14:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 84 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 14:49 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 14:49 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 34.1 | | 4.95 | mg/Kg | | | 01/07/22 14:54 | 1 |

Client Sample ID: FS29

Date Collected: 01/05/22 12:20
Date Received: 01/06/22 13:42
Sample Depth: 0.5

Lab Sample ID: 890-1805-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 144 | S1+ | 70 - 130 | | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 01/07/22 08:00 | 01/07/22 14:22 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 01/07/22 14:59 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 91.7 | | 50.0 | mg/Kg | | | 01/10/22 12:40 | 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 | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 15:09 | 1 |
| Diesel Range Organics (Over C10-C28) | 91.7 | | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 15:09 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 15:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 15:09 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 15:09 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Client Sample ID: FS29
Date Collected: 01/05/22 12:20
Date Received: 01/06/22 13:42
Sample Depth: 0.5

Lab Sample ID: 890-1805-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2220 | | 24.8 | mg/Kg | | | 01/07/22 17:00 | 5 |

Client Sample ID: FS30
Date Collected: 01/05/22 12:30
Date Received: 01/06/22 13:42
Sample Depth: 0.5

Lab Sample ID: 890-1805-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 01/07/22 08:00 | 01/07/22 14:42 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | | 01/07/22 14:59 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 99.9 | | 50.0 | mg/Kg | | | 01/10/22 12:40 | 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 | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 15:29 | 1 |
| Diesel Range Organics (Over C10-C28) | 99.9 | | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 15:29 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 15:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 82 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 15:29 | 1 |
| <i>o-Terphenyl</i> | 92 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 15:29 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1270 | | 5.00 | mg/Kg | | | 01/07/22 15:10 | 1 |

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| | | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1805-1 | SW06 | 113 | 85 |
| 890-1805-1 MS | SW06 | 111 | 100 |
| 890-1805-1 MSD | SW06 | 104 | 95 |
| 890-1805-2 | SW07 | 118 | 99 |
| 890-1805-3 | FS14A | 127 | 92 |
| 890-1805-4 | FS29 | 144 S1+ | 97 |
| 890-1805-5 | FS30 | 118 | 99 |
| LCS 880-16163/1-A | Lab Control Sample | 108 | 98 |
| LCSD 880-16163/2-A | Lab Control Sample Dup | 107 | 93 |
| MB 880-16163/5-A | Method Blank | 120 | 100 |

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**

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| | | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-9941-A-61-E MS | Matrix Spike | 76 | 80 |
| 880-9941-A-61-F MSD | Matrix Spike Duplicate | 86 | 88 |
| 890-1805-1 | SW06 | 85 | 92 |
| 890-1805-2 | SW07 | 82 | 90 |
| 890-1805-3 | FS14A | 84 | 95 |
| 890-1805-4 | FS29 | 78 | 87 |
| 890-1805-5 | FS30 | 82 | 92 |
| LCS 880-16210/2-A | Lab Control Sample | 97 | 104 |
| LCSD 880-16210/3-A | Lab Control Sample Dup | 105 | 113 |
| MB 880-16210/1-A | Method Blank | 91 | 108 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-16163/5-A****Matrix: Solid****Analysis Batch: 16202**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/07/22 08:00 | 01/07/22 11:30 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/07/22 08:00 | 01/07/22 11:30 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/07/22 08:00 | 01/07/22 11:30 | | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 01/07/22 08:00 | 01/07/22 11:30 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/07/22 08:00 | 01/07/22 11:30 | | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 01/07/22 08:00 | 01/07/22 11:30 | | 1 |

Client Sample ID: Method Blank**Prep Type: Total/NA****Prep Batch: 16163**

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 11:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 11:30 | 1 |

Lab Sample ID: LCS 880-16163/1-A**Matrix: Solid****Analysis Batch: 16202**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | Limits | %Rec. |
|---------------------|-------|---------|-----------|-------|---|------|----------|-------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 0.100 | 0.09195 | | mg/Kg | | 92 | 70 - 130 | |
| Toluene | 0.100 | 0.09439 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1051 | | mg/Kg | | 105 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1991 | | mg/Kg | | 100 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09446 | | mg/Kg | | 94 | 70 - 130 | |

| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 11:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 11:30 | 1 |

Client Sample ID: Lab Control Sample**Prep Type: Total/NA****Prep Batch: 16163****Lab Sample ID: LCSD 880-16163/2-A****Matrix: Solid****Analysis Batch: 16202**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | Limits | %Rec. | RPD | Limit |
|---------------------|-------|---------|-----------|-------|---|------|----------|-------|-----|-------|
| | Added | Result | Qualifier | | | | | | | |
| Benzene | 0.100 | 0.09529 | | mg/Kg | | 95 | 70 - 130 | | 4 | 35 |
| Toluene | 0.100 | 0.1011 | | mg/Kg | | 101 | 70 - 130 | | 7 | 35 |
| Ethylbenzene | 0.100 | 0.1017 | | mg/Kg | | 102 | 70 - 130 | | 3 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1942 | | mg/Kg | | 97 | 70 - 130 | | 2 | 35 |
| o-Xylene | 0.100 | 0.1003 | | mg/Kg | | 100 | 70 - 130 | | 6 | 35 |

| Surrogate | LCSD | LCSD | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 11:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 01/07/22 08:00 | 01/07/22 11:30 | 1 |

Client Sample ID: Lab Control Sample Dup**Prep Type: Total/NA****Prep Batch: 16163****Lab Sample ID: 890-1805-1 MSD****Matrix: Solid****Analysis Batch: 16202**

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | Limit |
|---------|----------|-----------|-------|---------|-----------|-------|---|------|--------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Benzene | <0.00201 | U | 0.100 | 0.09925 | | mg/Kg | | | | | |
| Toluene | <0.00201 | U | 0.100 | 0.1053 | | mg/Kg | | | | | |

Client Sample ID: SW06**Prep Type: Total/NA****Prep Batch: 16163**

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QC Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

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

| Lab Sample ID: 890-1805-1 MSD | | | | | | | Client Sample ID: SW06 | | | | |
|-------------------------------|---------------|------------------|-------------|------------|---------------|-------|------------------------|-------|--------|-----|-----------|
| Matrix: Solid | | | | | | | Prep Type: Total/NA | | | | |
| Analysis Batch: 16202 | | | | | | | Prep Batch: 16163 | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | Limits | RPD | RPD Limit |
| Ethylbenzene | <0.00201 | U | 0.100 | 0.1019 | | mg/Kg | | | | | |
| m-Xylene & p-Xylene | <0.00402 | U | 0.200 | 0.1981 | | mg/Kg | | | | | |
| o-Xylene | <0.00201 | U | 0.100 | 0.09328 | | mg/Kg | | | | | |
| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-1805-1 MS

Matrix: Solid
Analysis Batch: 16202

Client Sample ID: SW06
Prep Type: Total/NA

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-16210/1-A**

Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16210

| 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 | | 01/07/22 08:53 | 01/07/22 11:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 11:13 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/07/22 08:53 | 01/07/22 11:13 | 1 |
| Surrogate | | | | | | | | |
| Surrogate | MB %Recovery | MB Qualifier | MB Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 11:13 | 1 |
| o-Terphenyl | 108 | | 70 - 130 | | | 01/07/22 08:53 | 01/07/22 11:13 | 1 |

Lab Sample ID: LCS 880-16210/2-A

Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16210

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|-------|----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 752.8 | | mg/Kg | | 75 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 949.7 | | mg/Kg | | 95 | 70 - 130 |
| Surrogate | | | | | | | |
| Surrogate | LCS %Recovery | LCS Qualifier | LCS Limits | | | | |
| 1-Chlorooctane | 97 | | 70 - 130 | | | | |
| o-Terphenyl | 104 | | 70 - 130 | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: LCSD 880-16210/3-A****Matrix: Solid****Analysis Batch: 16215****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 16210**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 858.9 | | mg/Kg | | 86 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1156 | | mg/Kg | | 116 | 70 - 130 | 20 | 20 |

Surrogate LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 105 | | 70 - 130 |
| o-Terphenyl | 113 | | 70 - 130 |

Lab Sample ID: 880-9941-A-61-E MS**Matrix: Solid****Analysis Batch: 16215****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 16210**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 996 | 813.9 | | mg/Kg | | 80 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 995.7 | | mg/Kg | | 97 | 70 - 130 |

Surrogate MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 76 | | 70 - 130 |
| o-Terphenyl | 80 | | 70 - 130 |

Lab Sample ID: 880-9941-A-61-F MSD**Matrix: Solid****Analysis Batch: 16215****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 16210**

| 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 | <49.9 | U | 999 | 870.1 | | mg/Kg | | 86 | 70 - 130 | 7 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1112 | | mg/Kg | | 108 | 70 - 130 | 11 | 20 |

Surrogate MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 86 | | 70 - 130 |
| o-Terphenyl | 88 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-16226/1-A****Matrix: Solid****Analysis Batch: 16239****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 | | | 01/07/22 09:46 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Method: 300.0 - Anions, Ion Chromatography (Continued)**Lab Sample ID: LCS 880-16226/2-A****Matrix: Solid****Analysis Batch: 16239****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | RPD |
|----------|-------------|------------|---------------|-------|----|----------|-----|
| Chloride | 250 | 233.7 | | mg/Kg | 93 | 90 - 110 | |

Lab Sample ID: LCSD 880-16226/3-A**Matrix: Solid****Analysis Batch: 16239****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD |
|----------|-------------|-------------|----------------|-------|----|----------|-----|
| Chloride | 250 | 235.0 | | mg/Kg | 94 | 90 - 110 | |

Lab Sample ID: 890-1805-5 MS**Matrix: Solid****Analysis Batch: 16239****Client Sample ID: FS30****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. |
|----------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|
| Chloride | 1270 | | 250 | 1467 | 4 | mg/Kg | 78 | 90 - 110 |

Lab Sample ID: 890-1805-5 MSD**Matrix: Solid****Analysis Batch: 16239****Client Sample ID: FS30****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. |
|----------|---------------|------------------|-------------|------------|---------------|-------|----|----------|
| Chloride | 1270 | | 250 | 1446 | 4 | mg/Kg | 70 | 90 - 110 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

GC VOA**Prep Batch: 16163**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1805-1 | SW06 | Total/NA | Solid | 5035 | |
| 890-1805-2 | SW07 | Total/NA | Solid | 5035 | |
| 890-1805-3 | FS14A | Total/NA | Solid | 5035 | |
| 890-1805-4 | FS29 | Total/NA | Solid | 5035 | |
| 890-1805-5 | FS30 | Total/NA | Solid | 5035 | |
| MB 880-16163/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-16163/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-16163/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-1805-1 MSD | SW06 | Total/NA | Solid | 5035 | |

Analysis Batch: 16202

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1805-1 | SW06 | Total/NA | Solid | 8021B | 16163 |
| 890-1805-2 | SW07 | Total/NA | Solid | 8021B | 16163 |
| 890-1805-3 | FS14A | Total/NA | Solid | 8021B | 16163 |
| 890-1805-4 | FS29 | Total/NA | Solid | 8021B | 16163 |
| 890-1805-5 | FS30 | Total/NA | Solid | 8021B | 16163 |
| MB 880-16163/5-A | Method Blank | Total/NA | Solid | 8021B | 16163 |
| LCS 880-16163/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 16163 |
| LCSD 880-16163/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 16163 |
| 890-1805-1 MS | SW06 | Total/NA | Solid | 8021B | |
| 890-1805-1 MSD | SW06 | Total/NA | Solid | 8021B | 16163 |

Analysis Batch: 16289

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1805-1 | SW06 | Total/NA | Solid | Total BTEX | |
| 890-1805-2 | SW07 | Total/NA | Solid | Total BTEX | |
| 890-1805-3 | FS14A | Total/NA | Solid | Total BTEX | |
| 890-1805-4 | FS29 | Total/NA | Solid | Total BTEX | |
| 890-1805-5 | FS30 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Prep Batch: 16210**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-1805-1 | SW06 | Total/NA | Solid | 8015NM Prep | |
| 890-1805-2 | SW07 | Total/NA | Solid | 8015NM Prep | |
| 890-1805-3 | FS14A | Total/NA | Solid | 8015NM Prep | |
| 890-1805-4 | FS29 | Total/NA | Solid | 8015NM Prep | |
| 890-1805-5 | FS30 | Total/NA | Solid | 8015NM Prep | |
| MB 880-16210/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-16210/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-16210/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-9941-A-61-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-9941-A-61-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 16215

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-1805-1 | SW06 | Total/NA | Solid | 8015B NM | |
| 890-1805-2 | SW07 | Total/NA | Solid | 8015B NM | 16210 |
| 890-1805-3 | FS14A | Total/NA | Solid | 8015B NM | 16210 |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

GC Semi VOA (Continued)**Analysis Batch: 16215 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1805-4 | FS29 | Total/NA | Solid | 8015B NM | 16210 |
| 890-1805-5 | FS30 | Total/NA | Solid | 8015B NM | 16210 |
| MB 880-16210/1-A | Method Blank | Total/NA | Solid | 8015B NM | 16210 |
| LCS 880-16210/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 16210 |
| LCSD 880-16210/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 16210 |
| 880-9941-A-61-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 16210 |
| 880-9941-A-61-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 16210 |

Analysis Batch: 16428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1805-1 | SW06 | Total/NA | Solid | 8015 NM | 9 |
| 890-1805-2 | SW07 | Total/NA | Solid | 8015 NM | 10 |
| 890-1805-3 | FS14A | Total/NA | Solid | 8015 NM | 11 |
| 890-1805-4 | FS29 | Total/NA | Solid | 8015 NM | 11 |
| 890-1805-5 | FS30 | Total/NA | Solid | 8015 NM | 11 |

HPLC/IC**Leach Batch: 16226**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1805-1 | SW06 | Soluble | Solid | DI Leach | |
| 890-1805-2 | SW07 | Soluble | Solid | DI Leach | |
| 890-1805-3 | FS14A | Soluble | Solid | DI Leach | |
| 890-1805-4 | FS29 | Soluble | Solid | DI Leach | |
| 890-1805-5 | FS30 | Soluble | Solid | DI Leach | |
| MB 880-16226/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-16226/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-16226/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1805-5 MS | FS30 | Soluble | Solid | DI Leach | |
| 890-1805-5 MSD | FS30 | Soluble | Solid | DI Leach | |

Analysis Batch: 16239

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1805-1 | SW06 | Soluble | Solid | 300.0 | 16226 |
| 890-1805-2 | SW07 | Soluble | Solid | 300.0 | 16226 |
| 890-1805-3 | FS14A | Soluble | Solid | 300.0 | 16226 |
| 890-1805-4 | FS29 | Soluble | Solid | 300.0 | 16226 |
| 890-1805-5 | FS30 | Soluble | Solid | 300.0 | 16226 |
| MB 880-16226/1-A | Method Blank | Soluble | Solid | 300.0 | 16226 |
| LCS 880-16226/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 16226 |
| LCSD 880-16226/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 16226 |
| 890-1805-5 MS | FS30 | Soluble | Solid | 300.0 | 16226 |
| 890-1805-5 MSD | FS30 | Soluble | Solid | 300.0 | 16226 |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Client Sample ID: SW06

Date Collected: 01/05/22 12:00

Date Received: 01/06/22 13:42

Lab Sample ID: 890-1805-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16163 | 01/07/22 08:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16202 | 01/07/22 13:21 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16289 | 01/07/22 14:59 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16210 | 01/07/22 08:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16215 | 01/07/22 13:44 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16226 | 01/07/22 09:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16239 | 01/07/22 14:38 | CH | XEN MID |

Client Sample ID: SW07

Date Collected: 01/05/22 12:05

Date Received: 01/06/22 13:42

Lab Sample ID: 890-1805-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16163 | 01/07/22 08:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16202 | 01/07/22 13:41 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16289 | 01/07/22 14:59 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16210 | 01/07/22 08:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16215 | 01/07/22 14:24 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16226 | 01/07/22 09:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16239 | 01/07/22 14:46 | CH | XEN MID |

Client Sample ID: FS14A

Date Collected: 01/05/22 12:10

Date Received: 01/06/22 13:42

Lab Sample ID: 890-1805-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16163 | 01/07/22 08:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16202 | 01/07/22 14:01 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16289 | 01/07/22 14:59 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16210 | 01/07/22 08:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16215 | 01/07/22 14:49 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16226 | 01/07/22 09:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16239 | 01/07/22 14:54 | CH | XEN MID |

Client Sample ID: FS29

Date Collected: 01/05/22 12:20

Date Received: 01/06/22 13:42

Lab Sample ID: 890-1805-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16163 | 01/07/22 08:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16202 | 01/07/22 14:22 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16289 | 01/07/22 14:59 | KL | XEN MID |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Client Sample ID: FS29

Date Collected: 01/05/22 12:20

Date Received: 01/06/22 13:42

Lab Sample ID: 890-1805-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16210 | 01/07/22 08:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16215 | 01/07/22 15:09 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16226 | 01/07/22 09:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 16239 | 01/07/22 17:00 | CH | XEN MID |

Client Sample ID: FS30

Date Collected: 01/05/22 12:30

Date Received: 01/06/22 13:42

Lab Sample ID: 890-1805-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16163 | 01/07/22 08:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16202 | 01/07/22 14:42 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16289 | 01/07/22 14:59 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16210 | 01/07/22 08:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16215 | 01/07/22 15:29 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16226 | 01/07/22 09:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16239 | 01/07/22 15:10 | CH | XEN MID |

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

1
2
3
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Method Summary

Client: WSP USA Inc.
Project/Site: plu 293 flow line

Job ID: 890-1805-1

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc.

Project/Site: plu 293 flow line

Job ID: 890-1805-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|---|
| 890-1805-1 | SW06 | Solid | 01/05/22 12:00 | 01/06/22 13:42 | 0 - 3 | 1 |
| 890-1805-2 | SW07 | Solid | 01/05/22 12:05 | 01/06/22 13:42 | 0 - 3 | 2 |
| 890-1805-3 | FS14A | Solid | 01/05/22 12:10 | 01/06/22 13:42 | 1 | 3 |
| 890-1805-4 | FS29 | Solid | 01/05/22 12:20 | 01/06/22 13:42 | 0.5 | 4 |
| 890-1805-5 | FS30 | Solid | 01/05/22 12:30 | 01/06/22 13:42 | 0.5 | 5 |



Chain of Custody

Work Order No: _____

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) 794-1996
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com Page _____ of 1

Work Order Comments

UST/PST PRP Brownfields RRC Superfund

State of Project: Level II Level III PST/JUST RRP Level IV

Reporting: Deliverables: EDD ADAPT Other:

| | | | |
|------------------|---------------------|-------------------------|---|
| Project Manager: | Tacoma Morrissey | Bill to: (if different) | Kyle Littell |
| Company Name: | WSP USA Inc. | Company Name: | XTO Energy, Inc. |
| Address: | 3300 North A Street | Address: | 3104 E Green Street |
| City, State ZIP: | Midland, TX 79707 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 432.236.3849 | Email: | Alexis.Castro@wsp.com, Tacoma.Morrissey@wsp.com |

| Project Name: | PLU 293 Flow Line | Turn Around | ANALYSIS REQUEST | Work Order Notes |
|-----------------|-------------------|---|------------------|------------------|
| Project Number: | | Routine <input type="checkbox"/> | | |
| P.O. Number: | | Rush: <input checked="" type="checkbox"/> | | |
| Sampler's Name: | Alexis Castro | Due Date: | | |

| SAMPLE RECEIPT | Temp/Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | ANALYSIS REQUEST | Work Order Notes |
|-----------------------|---|---|--------------------|---|------------------|------------------|
| Temperature (°C): | 4.5 / 3.8 | | Thermometer ID: | | | |
| Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | Correction Factor: | -0.2 | | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | Total Containers: | | | |



890-1805 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | | | TAT starts the day received by the lab, if received by 4:30pm | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|-------------------|----------------------|---|-----------------|
| | | | | | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | | |
| SW06 | S | 01/05/2022 | 1200 | 0-3' | 1 | X | X | | COMPOSITE |
| SW07 | S | 01/05/2022 | 1205 | 0-3' | 1 | X | X | | COMPOSITE |
| FS14A | S | 01/05/2022 | 1210 | 3' | 1 | X | X | | COMPOSITE |
| FS29 | S | 01/05/2022 | 1220 | 0.5' | 1 | X | X | | COMPOSITE |
| FS30 | S | 01/05/2022 | 1230 | 0.5' | 1 | 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 SiO ₂ 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 |
| 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 |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1 <i>M' Castro</i> | <i>do</i> | 1-6-2021 | | | |
| 3 | | 4 | | | |
| 5 | | 6 | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1805-1

Login Number: 1805**List Source: Eurofins Carlsbad****List Number: 1****Creator: Clifton, Cloe****Question****Answer****Comment**

| | | | |
|--|------|--|----|
| The cooler's custody seal, if present, is intact. | True | | 6 |
| Sample custody seals, if present, are intact. | True | | 7 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 8 |
| Samples were received on ice. | True | | 9 |
| Cooler Temperature is acceptable. | True | | 10 |
| Cooler Temperature is recorded. | True | | 11 |
| COC is present. | True | | 12 |
| COC is filled out in ink and legible. | True | | 13 |
| COC is filled out with all pertinent information. | True | | 14 |
| 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: 890-1805-1

Login Number: 1805**List Source: Eurofins Midland****List Number: 2****List Creation: 01/07/22 12:52 PM****Creator: Rodriguez, Leticia**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| Sample collection date/times are provided. | True | | |
| Appropriate sample containers are used. | True | | |
| Sample bottles are completely filled. | True | | |
| Sample Preservation Verified. | N/A | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | | |



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Environment Testing
America



ANALYTICAL REPORT

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

[Laboratory Job ID: 890-1817-1](#)
Laboratory SDG: 31403236.020.0129 task 08.02
Client Project/Site: PLU 293 Flow Line
Revision: 1

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

Attn: Tacoma Morrissey

Authorized for release by:
1/14/2022 10:40:18 AM
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 293 Flow Line

Laboratory Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

Qualifiers

GC VOA

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

GC Semi VOA

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

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 293 Flow Line

Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

Job ID: 890-1817-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1817-1

REVISION

The report being provided is a revision of the original report sent on 1/13/2022. The report (revision 1) is being revised due to Per client email, corrected sample IDs.

Report revision history

Receipt

The samples were received on 1/11/2022 2:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16598 and analytical batch 880-16579 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-1816-A-1-E) and (890-1816-A-1-F MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

Client Sample ID: SW09
 Date Collected: 01/11/22 12:20
 Date Received: 01/11/22 14:46
 Sample Depth: 0 - 4

Lab Sample ID: 890-1817-1
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/13/22 03:58 | | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/13/22 03:58 | | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/13/22 03:58 | | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | 01/12/22 09:21 | 01/13/22 03:58 | | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/13/22 03:58 | | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | 01/12/22 09:21 | 01/13/22 03:58 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | | 70 - 130 | | 01/12/22 09:21 | 01/13/22 03:58 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | | 70 - 130 | | 01/12/22 09:21 | 01/13/22 03:58 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 01/12/22 13:10 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 61.9 | | 50.0 | mg/Kg | | | 01/11/22 14:19 | 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 | 01/12/22 14:31 | 01/13/22 02:56 | | 1 |
| Diesel Range Organics (Over C10-C28) | 61.9 | | 50.0 | mg/Kg | 01/12/22 14:31 | 01/13/22 02:56 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 01/12/22 14:31 | 01/13/22 02:56 | | 1 |
| Surrogate | | | | | | | | |
| 1-Chlorooctane | 76 | | 70 - 130 | | 01/12/22 14:31 | 01/13/22 02:56 | | 1 |
| <i>o-Terphenyl</i> | 82 | | 70 - 130 | | 01/12/22 14:31 | 01/13/22 02:56 | | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 220 | | 5.00 | mg/Kg | | | 01/12/22 18:08 | 1 |

Client Sample ID: SW10
 Date Collected: 01/11/22 09:35
 Date Received: 01/11/22 14:46
 Sample Depth: 0 - 4

Lab Sample ID: 890-1817-2
 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|----------|------------------|------------------|---------------|----------------|-----------------|-----------------|----------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | 01/12/22 09:21 | 01/13/22 04:18 | | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | 01/12/22 09:21 | 01/13/22 04:18 | | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | 01/12/22 09:21 | 01/13/22 04:18 | | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | 01/12/22 09:21 | 01/13/22 04:18 | | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | 01/12/22 09:21 | 01/13/22 04:18 | | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | 01/12/22 09:21 | 01/13/22 04:18 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | | 70 - 130 | | 01/12/22 09:21 | 01/13/22 04:18 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

Client Sample ID: SW10
 Date Collected: 01/11/22 09:35
 Date Received: 01/11/22 14:46
 Sample Depth: 0 - 4

Lab Sample ID: 890-1817-2
 Matrix: Solid

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 75 | | 70 - 130 | 01/12/22 09:21 | 01/13/22 04:18 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 01/12/22 13:10 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 01/11/22 14:19 | 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 | | 01/12/22 14:31 | 01/13/22 03:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/12/22 14:31 | 01/13/22 03:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/12/22 14:31 | 01/13/22 03:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 70 | | 70 - 130 | 01/12/22 14:31 | 01/13/22 03:16 | 1 |
| o-Terphenyl | 76 | | 70 - 130 | 01/12/22 14:31 | 01/13/22 03:16 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 375 | | 4.96 | mg/Kg | | | 01/12/22 18:18 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|------------------------|--|-------------------|--|
| | | BFB1 (70-130) | DFBZ1 (70-130) | |
| 880-9967-A-3-D MS | Matrix Spike | 91 | 108 | |
| 880-9967-A-3-E MSD | Matrix Spike Duplicate | 89 | 104 | |
| 890-1817-1 | SW09 | 102 | 101 | |
| 890-1817-2 | SW10 | 99 | 75 | |
| LCS 880-16598/1-A | Lab Control Sample | 88 | 105 | |
| LCSD 880-16598/2-A | Lab Control Sample Dup | 94 | 112 | |
| MB 880-16533/5-A | Method Blank | 118 | 96 | |
| MB 880-16598/5-A | Method Blank | 96 | 78 | |

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

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|------------------------|--|-------------------|--|
| | | 1CO1 (70-130) | OTPH1 (70-130) | |
| 890-1816-A-1-F MS | Matrix Spike | 65 S1- | 65 S1- | |
| 890-1816-A-1-G MSD | Matrix Spike Duplicate | 76 | 75 | |
| 890-1817-1 | SW09 | 76 | 82 | |
| 890-1817-2 | SW10 | 70 | 76 | |
| LCS 880-16679/2-A | Lab Control Sample | 104 | 105 | |
| LCSD 880-16679/3-A | Lab Control Sample Dup | 97 | 100 | |
| MB 880-16679/1-A | Method Blank | 78 | 88 | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

Method: 8021B - Volatile Organic Compounds (GC)**Lab Sample ID: MB 880-16533/5-A****Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16533**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/11/22 13:16 | 01/12/22 12:02 | 1 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/11/22 13:16 | 01/12/22 12:02 | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/11/22 13:16 | 01/12/22 12:02 | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 01/11/22 13:16 | 01/12/22 12:02 | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/11/22 13:16 | 01/12/22 12:02 | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 01/11/22 13:16 | 01/12/22 12:02 | 1 | |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | 01/11/22 13:16 | 01/12/22 12:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 01/11/22 13:16 | 01/12/22 12:02 | 1 |

Lab Sample ID: MB 880-16598/5-A**Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16598**

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/12/22 23:07 | 1 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/12/22 23:07 | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/12/22 23:07 | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | 01/12/22 09:21 | 01/12/22 23:07 | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | 01/12/22 09:21 | 01/12/22 23:07 | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | 01/12/22 09:21 | 01/12/22 23:07 | 1 | |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | 01/12/22 09:21 | 01/12/22 23:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 78 | | 70 - 130 | 01/12/22 09:21 | 01/12/22 23:07 | 1 |

Lab Sample ID: LCS 880-16598/1-A**Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 16598**

| Analyte | Spike | LCS | LCS | Unit | D | %Rec. | Limits |
|---------------------|-------|---------|-----------|-------|----|----------|--------|
| | Added | Result | Qualifier | | | %Rec. | |
| Benzene | 0.100 | 0.08139 | | mg/Kg | 81 | 70 - 130 | |
| Toluene | 0.100 | 0.07125 | | mg/Kg | 71 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.07268 | | mg/Kg | 73 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1533 | | mg/Kg | 77 | 70 - 130 | |
| o-Xylene | 0.100 | 0.07003 | | mg/Kg | 70 | 70 - 130 | |

| Surrogate | LCS | LCS | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 | 01/12/22 09:21 | 01/12/22 23:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | 01/12/22 09:21 | 01/12/22 23:07 | 1 |

Lab Sample ID: LCSD 880-16598/2-A**Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 16598**

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec. | RPD |
|---------|-------|---------|-----------|-------|----|----------|------|
| | Added | Result | Qualifier | | | %Rec. | |
| Benzene | 0.100 | 0.08916 | | mg/Kg | 89 | 70 - 130 | 9 35 |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

Method: 8021B - Volatile Organic Compounds (GC) (Continued)**Lab Sample ID: LCSD 880-16598/2-A****Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 16598**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|----|----------|--------|-----|-----------|
| Toluene | 0.100 | 0.07555 | | mg/Kg | 76 | 70 - 130 | | 6 | 35 |
| Ethylbenzene | 0.100 | 0.07376 | | mg/Kg | 74 | 70 - 130 | | 1 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1441 | | mg/Kg | 72 | 70 - 130 | | 6 | 35 |
| o-Xylene | 0.100 | 0.07508 | | mg/Kg | 75 | 70 - 130 | | 7 | 35 |

| Surrogate | LCSD | LCSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 |

Lab Sample ID: 880-9967-A-3-D MS**Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 16598**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|----|----------|--------------|
| Benzene | <0.00200 | U | 0.0990 | 0.08530 | | mg/Kg | 86 | 70 - 130 | |
| Toluene | <0.00200 | U | 0.0990 | 0.07409 | | mg/Kg | 75 | 70 - 130 | |
| Ethylbenzene | <0.00200 | U F1 | 0.0990 | 0.06941 | F1 | mg/Kg | 69 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00399 | U F1 | 0.198 | 0.1360 | F1 | mg/Kg | 69 | 70 - 130 | |
| o-Xylene | <0.00200 | U | 0.0990 | 0.07162 | | mg/Kg | 72 | 70 - 130 | |

| Surrogate | MS | MS | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

Lab Sample ID: 880-9967-A-3-E MSD**Matrix: Solid****Analysis Batch: 16579****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 16598**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|----|----------|--------------|-----|-----------|
| Benzene | <0.00200 | U | 0.0998 | 0.08199 | | mg/Kg | 82 | 70 - 130 | | 4 | 35 |
| Toluene | <0.00200 | U | 0.0998 | 0.07214 | | mg/Kg | 72 | 70 - 130 | | 3 | 35 |
| Ethylbenzene | <0.00200 | U F1 | 0.0998 | 0.06941 | F1 | mg/Kg | 69 | 70 - 130 | | 0 | 35 |
| m-Xylene & p-Xylene | <0.00399 | U F1 | 0.200 | 0.1360 | F1 | mg/Kg | 68 | 70 - 130 | | 0 | 35 |
| o-Xylene | <0.00200 | U | 0.0998 | 0.07103 | | mg/Kg | 71 | 70 - 130 | | 1 | 35 |

| Surrogate | MSD | MSD | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Lab Sample ID: MB 880-16679/1-A****Matrix: Solid****Analysis Batch: 16627****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16679**

| 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 | 01/12/22 14:31 | 01/12/22 20:35 | | 1 |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: MB 880-16679/1-A****Matrix: Solid****Analysis Batch: 16627****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16679**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-------------------------|-------------------------|---------------|-------|----------------|-----------------|-----------------|----------------|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 01/12/22 14:31 | 01/12/22 20:35 | | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 01/12/22 14:31 | 01/12/22 20:35 | | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | 01/12/22 14:31 | 01/12/22 20:35 | | 1 |
| <i>o-Terphenyl</i> | 88 | | 70 - 130 | | 01/12/22 14:31 | 01/12/22 20:35 | | 1 |

Lab Sample ID: LCS 880-16679/2-A**Matrix: Solid****Analysis Batch: 16627****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 16679**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------------------|--------------------------|--------------------------|------------------|-------|-----|----------|-------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 854.1 | | mg/Kg | 85 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 996.3 | | mg/Kg | 100 | 70 - 130 | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1-Chlorooctane | 104 | | 70 - 130 | | | | |
| <i>o-Terphenyl</i> | 105 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-16679/3-A**Matrix: Solid****Analysis Batch: 16627****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 16679**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. | RPD |
|--------------------------------------|---------------------------|---------------------------|-------------------|-------|-----|----------|-------|-----|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 925.9 | | mg/Kg | 93 | 70 - 130 | | 8 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1000 | | mg/Kg | 100 | 70 - 130 | | 0 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | |
| 1-Chlorooctane | 97 | | 70 - 130 | | | | | |
| <i>o-Terphenyl</i> | 100 | | 70 - 130 | | | | | |

Lab Sample ID: 890-1816-A-1-F MS**Matrix: Solid****Analysis Batch: 16627****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 16679**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------------------|-------------------------|-------------------------|----------------|--------------|-----------------|-------|----|----------|-------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 996 | 754.3 | | mg/Kg | 76 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 996 | 840.3 | | mg/Kg | 82 | 70 - 130 | |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 65 | S1- | 70 - 130 | | | | | | |
| <i>o-Terphenyl</i> | 65 | S1- | 70 - 130 | | | | | | |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Lab Sample ID: 890-1816-A-1-G MSD****Matrix: Solid****Analysis Batch: 16627****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 16679**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit | |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|-------|----------|-----------|----|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 852.4 | | mg/Kg | | 85 | 70 - 130 | 12 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 1009 | | mg/Kg | | 99 | 70 - 130 | 18 | 20 |
| Surrogate | %Recovery | MSD Qualifier | MSD Limits | | | | | | | | |
| 1-Chlorooctane | 76 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 75 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography**Lab Sample ID: MB 880-16672/1-A****Matrix: Solid****Analysis Batch: 16673****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 | | | 01/12/22 16:27 | 1 |

Lab Sample ID: LCS 880-16672/2-A**Matrix: Solid****Analysis Batch: 16673****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|-------------|------------|---------------|-------|---|-------|----------|
| Chloride | 250 | 268.1 | | mg/Kg | | 107 | 90 - 110 |

Lab Sample ID: LCSD 880-16672/3-A**Matrix: Solid****Analysis Batch: 16673****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit | |
|----------|-------------|-------------|----------------|-------|---|-------|----------|-----------|----|
| Chloride | 250 | 268.4 | | mg/Kg | | 107 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-1815-A-21-C MS**Matrix: Solid****Analysis Batch: 16673****Client Sample ID: Matrix Spike****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec. | RPD | RPD Limit | |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|-------|----------|-----------|--|
| Chloride | 7270 | | 4990 | 12700 | | mg/Kg | | 109 | 90 - 110 | | |

Lab Sample ID: 890-1815-A-21-D MSD**Matrix: Solid****Analysis Batch: 16673****Client Sample ID: Matrix Spike Duplicate****Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. | RPD | RPD Limit | |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|-------|----------|-----------|----|
| Chloride | 7270 | | 4990 | 12640 | | mg/Kg | | 108 | 90 - 110 | 1 | 20 |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

GC VOA**Prep Batch: 16533**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-16533/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 16579

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1817-1 | SW09 | Total/NA | Solid | 8021B | 16598 |
| 890-1817-2 | SW10 | Total/NA | Solid | 8021B | 16598 |
| MB 880-16533/5-A | Method Blank | Total/NA | Solid | 8021B | 16533 |
| MB 880-16598/5-A | Method Blank | Total/NA | Solid | 8021B | 16598 |
| LCS 880-16598/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 16598 |
| LCSD 880-16598/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 16598 |
| 880-9967-A-3-D MS | Matrix Spike | Total/NA | Solid | 8021B | 16598 |
| 880-9967-A-3-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 16598 |

Prep Batch: 16598

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1817-1 | SW09 | Total/NA | Solid | 5035 | |
| 890-1817-2 | SW10 | Total/NA | Solid | 5035 | |
| MB 880-16598/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-16598/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-16598/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9967-A-3-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-9967-A-3-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 16668

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1817-1 | SW09 | Total/NA | Solid | Total BTEX | |
| 890-1817-2 | SW10 | Total/NA | Solid | Total BTEX | |

GC Semi VOA**Analysis Batch: 16554**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1817-1 | SW09 | Total/NA | Solid | 8015 NM | |
| 890-1817-2 | SW10 | Total/NA | Solid | 8015 NM | |

Analysis Batch: 16627

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1817-1 | SW09 | Total/NA | Solid | 8015B NM | 16679 |
| 890-1817-2 | SW10 | Total/NA | Solid | 8015B NM | 16679 |
| MB 880-16679/1-A | Method Blank | Total/NA | Solid | 8015B NM | 16679 |
| LCS 880-16679/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 16679 |
| LCSD 880-16679/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 16679 |
| 890-1816-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 16679 |
| 890-1816-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 16679 |

Prep Batch: 16679

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-1817-1 | SW09 | Total/NA | Solid | 8015NM Prep | |
| 890-1817-2 | SW10 | Total/NA | Solid | 8015NM Prep | |
| MB 880-16679/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-16679/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

GC Semi VOA (Continued)**Prep Batch: 16679 (Continued)**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-16679/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1816-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1816-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

HPLC/IC**Leach Batch: 16672**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1817-1 | SW09 | Soluble | Solid | DI Leach | |
| 890-1817-2 | SW10 | Soluble | Solid | DI Leach | |
| MB 880-16672/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-16672/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-16672/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1815-A-21-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-1815-A-21-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 16673

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1817-1 | SW09 | Soluble | Solid | 300.0 | 16672 |
| 890-1817-2 | SW10 | Soluble | Solid | 300.0 | 16672 |
| MB 880-16672/1-A | Method Blank | Soluble | Solid | 300.0 | 16672 |
| LCS 880-16672/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 16672 |
| LCSD 880-16672/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 16672 |
| 890-1815-A-21-C MS | Matrix Spike | Soluble | Solid | 300.0 | 16672 |
| 890-1815-A-21-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 16672 |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
 SDG: 31403236.020.0129 task 08.02

Client Sample ID: SW09

Date Collected: 01/11/22 12:20
 Date Received: 01/11/22 14:46

Lab Sample ID: 890-1817-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16598 | 01/12/22 09:21 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16579 | 01/13/22 03:58 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16668 | 01/12/22 13:10 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16554 | 01/11/22 14:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16679 | 01/12/22 14:31 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16627 | 01/13/22 02:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16672 | 01/12/22 08:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16673 | 01/12/22 18:08 | CH | XEN MID |

Client Sample ID: SW10

Date Collected: 01/11/22 09:35
 Date Received: 01/11/22 14:46

Lab Sample ID: 890-1817-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16598 | 01/12/22 09:21 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16579 | 01/13/22 04:18 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16668 | 01/12/22 13:10 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16554 | 01/11/22 14:19 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16679 | 01/12/22 14:31 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16627 | 01/13/22 03:16 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16672 | 01/12/22 08:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16673 | 01/12/22 18:18 | CH | XEN MID |

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 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 |
|-----------------|-------------|--------|------------|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

1
2
3
4
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13
14

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Method Summary

Client: WSP USA Inc.
Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1
SDG: 31403236.020.0129 task 08.02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 293 Flow Line

Job ID: 890-1817-1

SDG: 31403236.020.0129 task 08.02

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|---|
| 890-1817-1 | SW09 | Solid | 01/11/22 12:20 | 01/11/22 14:46 | 0 - 4 | 3 |
| 890-1817-2 | SW10 | Solid | 01/11/22 09:35 | 01/11/22 14:46 | 0 - 4 | 4 |

1

2

3

4

5

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9

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11

12

13

14



Chain of Custody

Work Order No: _____

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
www.xenco.com

Page 1 of 1

| | | | | |
|------------------|--|----------------------------------|--------------------------|---|
| Project Manager: | Tacoma Morrissey | Bill to: (<u>If different</u>) | Adrian Baker | Work Order Comments |
| Company Name: | WSP USA | Company Name: | XTO Energy, INC. | <input type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund |
| Address: | 3300 North A Street Building 1, unit 222 | Address: | 3401 E Green St | <input type="checkbox"/> Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> TUST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP: | Carlsbad, NM 88220 | Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: |
| Phone: | 337-257-8307 | Email: | Tacoma.morrissey@wsp.com | |

| SAMPLE RECEIPT | | ANALYSIS REQUEST | | Work Order Notes |
|-----------------|------------------------------|------------------|--------------------------|------------------|
| Project Name: | PLU 293 Flow Line | Turn Around | | |
| Project Number: | 31403236.020.0129 Task 08.02 | Routine | <input type="checkbox"/> | |
| P.O. Number: | | Rush: 24 hour | <input type="checkbox"/> | |
| Sampler's Name: | Payton Benner | Due Date: | | |

| Temperature (°C): | 1.41.2 | Thermometer ID: TNU-557 | Number of Containers | |
|-----------------------|--|----------------------------|----------------------|-------------------|
| | | | TPH (EPA 8015) | BTEX (EPA 0=8021) |
| Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: -0.2 | | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Total Containers: | | |
| Sample Custody Seals: | | | | |



890-1817 Chair of Custody

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

Sample Comments

Composite

Composite

Received by OCD: 6/27/2022 11:07:42 AM

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 |
| 1 <i>J. Benner</i> | <i>Joe Benner</i> | 1-11-22 1440 | | | |
| 3 | | | | | |
| 5 | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1817-1
SDG Number: 31403236.020.0129 task 08.02**Login Number: 1817****List Source: Eurofins Carlsbad****List Number: 1****Creator: Clifton, Cloe**

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | True | | 1 |
| Sample custody seals, if present, are intact. | True | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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: 890-1817-1
SDG Number: 31403236.020.0129 task 08.02**Login Number:** 1817**List Source:** Eurofins Midland**List Number:** 2**List Creation:** 01/12/22 12:07 PM**Creator:** Rodriguez, Leticia

| Question | Answer | Comment | |
|--|--------|---------|----|
| The cooler's custody seal, if present, is intact. | N/A | | 1 |
| Sample custody seals, if present, are intact. | N/A | | 2 |
| The cooler or samples do not appear to have been compromised or tampered with. | True | | 3 |
| Samples were received on ice. | True | | 4 |
| Cooler Temperature is acceptable. | True | | 5 |
| Cooler Temperature is recorded. | True | | 6 |
| COC is present. | True | | 7 |
| COC is filled out in ink and legible. | True | | 8 |
| COC is filled out with all pertinent information. | True | | 9 |
| Is the Field Sampler's name present on COC? | True | | 10 |
| There are no discrepancies between the containers received and the COC. | True | | 11 |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | | 12 |
| Sample containers have legible labels. | True | | 13 |
| Containers are not broken or leaking. | True | | 14 |
| 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 | | |

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 120630

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 120630 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|----------------|
| jnobui | Delineation Work Plan Approved with Conditions. Any additional remedial activities required, if any, will be based on analytical laboratory data. | 9/22/2022 |