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 | NRM2024854885 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

| | | | Respo | onsible Party | У |
|--|---|-------------------|---|------------------------------|---|
| Responsible Party XTO Energy | | OGRID 4 | 5380 | | |
| Contact Name Kyle Littrell | | | | Contact Te | elephone 432-221-7331 |
| Contact ema | il Kyle_Lit | trell@xtoenergy.c | om | Incident # | (assigned by OCD) |
| Contact mail | ing address | 522 W. Mermod | , Carlsbad, NM 88 | 220 | |
| | | | Location | of Release So | ource |
| Latitude 32. | 47873 | | | Longitude | 104.11116 |
| - | - | | (NAD 83 in deci | imal degrees to 5 decim | aal places) |
| Site Name I | Big Eddy Un | uit 150 | | Site Type | well pad |
| Date Release | | | | API# (if app | |
| TI-:AI | Castian | Tauratia | Danas | Comm | |
| Unit Letter | Section | Township | Range | Coun | · |
| K | 17 | 21S | 28E | Edd | · |
| Surface Owne | | | Nature and | Volume of I | |
| Crude Oil | | Volume Release | | calculations or specific | ustification for the volumes provided below) Volume Recovered (bbls) |
| | | | | Volume Recovered (bbls) 1.00 | |
| Is the concentration of total dissolved solids in the produced water >10,000 mg/l? | | | Yes No | | |
| Condensate Volume Released (bbls) | | | Volume Recovered (bbls) | | |
| Natural Gas Volume Released (Mcf) | | | Volume Recovered (Mcf) | | |
| Other (de | vscribe) Volume/Weight Released (provide units) | | Volume/Weight Recovered (provide units) | | |
| Cause of Rel | transfer | | ruck was dispatche | | on line between the produced water tanks and the lstanding fluid. A third-party contractor has been |

Form C-141 Page 2

State of New Mexico Oil Conservation Division

| Incident ID | NRM2024854885 |
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| District RP | |
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| Was this a major | If YES, for what reason(s) does the respon | nsible party consider this a major release? |
|---|---|--|
| release as defined by 19.15.29.7(A) NMAC? | N/A | |
| 19.13.29.7(A) NWAC: | | |
| ☐ Yes 🗷 No | | |
| | | |
| | | |
| If YES, was immediate no | otice given to the OCD? By whom? To wh | nom? When and by what means (phone, email, etc)? |
| N/A | since given to the CCB. By when I is wi | tom: When and by What mounts (phone, email, etc). |
| | | |
| | | , |
| y" | Initial Ro | esponse |
| The responsible p | party must undertake the following actions immediatel | y unless they could create a safety hazard that would result in injury |
| ➤ The source of the rele | ease has been stopped | |
| | s been secured to protect human health and | the environment |
| | • | |
| l | | likes, absorbent pads, or other containment devices. |
| ★ All free liquids and re | ecoverable materials have been removed an | d managed appropriately. |
| If all the actions described | d above have <u>not</u> been undertaken, explain | why: |
| | | |
| | | |
| | | |
| | | |
| | | |
| Day 10 15 20 9 D (4) ND | IAC Al- | |
| has begun, please attach | a narrative of actions to date. If remedial | emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation. |
| | | best of my knowledge and understand that pursuant to OCD rules and |
| | | fications and perform corrective actions for releases which may endanger |
| | | OCD does not relieve the operator of liability should their operations have |
| failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws | | |
| and/or regulations. | | |
| Printed Name: Kyle Littr | ell | Title: SH&E Supervisor |
| 111 | | |
| Signature | Jether | Date: |
| email: Kyle_Littrell@xto | energy.com | Telephone: 432-221-7331 |
| | | Telephone. |
| OCD Only | | |
| OCD OIII <u>y</u> | | |
| Received by:Ramo | na Marcus | Date:9/4/2020 |
| | | |

| Location: | BEU 150 | | |
|-----------------|----------------------------|---------|---------|
| Spill Date: | 8/19/2020 | | |
| | Area 1 | | |
| Approximate A | ea = | 1762.00 | sq. ft. |
| Average Satura | tion (or depth) of spill = | 1.00 | inches |
| Average Porosit | y Factor = | 0.20 | |
| | VOLUME OF LEAK | | |
| Total Produced | Water = | 6.23 | bbls |

| TOTAL VOLUME OF LEAK | | |
|------------------------|-----------|--|
| Total Produced Water = | 6.23 bbls | |
| TOTAL VOLUME RECOVERED | | |
| Total Produced Water = | 1.00 bbls | |

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|----------------|---------------|----|
| Incident ID | NRM2024854885 | |
| District RP | | |
| Facility ID | | |
| Application ID | | |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | 51-100 (ft bgs) | |
|--|-----------------|--|
| Did this release impact groundwater or surface water? | ☐ Yes ☑ No | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☑ No | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☑ No | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☑ No | |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ✓ Yes ☐ No | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☑ No | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☑ No | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☑ No | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☑ No | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ✓ Yes ☐ No | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☑ No | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ☑ No | |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | | |
| Characterization Report Checklist: Each of the following items must be included in the report. | | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well | ls. | |
| ✓ 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 | | |

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.

✓ Laboratory data including chain of custody

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| nt ID | NRM2024854885 | |
| + DD | | |

| Incident ID | NRM2024854885 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
|--|----------------------------------|--|
| Printed Name: Adrian Baker Signature: Odvion Baker | Title: Environmental Coordinator | |
| Signature: Clobian Baks | Date: 8/12/2021 | |
| email: adrian.baker@exxonmobil.com | Telephone: 432-236-3808 | |
| | | |
| OCD Only | | |
| Received by: | Date: | |
| | | |

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

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| | 1 480 0 0 1 |
|----------------|---------------|
| Incident ID | NRM2024854885 |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation 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 con | firmed as part of any request for deferral of remediation. | | | | |
| Contamination must be in areas immediately under or around predeconstruction. | oduction equipment where remediation could cause a major facility | | | | |
| Extents of contamination must be fully delineated. | | | | | |
| Contamination does not cause an imminent risk to human health | , the environment, or groundwater. | | | | |
| I hereby certify that the information given above is true and complete to 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 Date: 8/12/2021 Telephone: 432-236-3808 | | | | | |
| OCD Only | | | | | |
| Received by: Approved | Date: Approval | | | | |
| Signature: Jennifer Nobili | Date: 02/28/2022 | | | | |

Deferral Request Denied.

wsp

WSP USA

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

August 12, 2021

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

RE: Remediation Work Plan and Deferral Request Big Eddy Unit 150 XTO Energy, Inc. Incident Number NRM2024854885 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Remediation Work Plan detailing remediation activities completed to date and a proposed work plan to address residual impacted soil at the Big Eddy Unit 150 (Site) in Unit K, Section 17, Township 21 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the remediation activities completed to date was to address impacts to soil resulting from the release of produced water at the Site, by safely excavating impacted soil to the extent possible based on Site conditions and allowed by safety policy (Attachment 1). The proposed work plan is designed to address remaining impacts to soil by installing a 20-mil impermeable liner in the subsurface and requesting deferral of final remediation around a third-party active gas line until it is decommissioned and removed by the third party operator.

RELEASE BACKGROUND

On August 19, 2020, a hole was discovered on the suction line between the produced water tanks and the transfer pump. Approximately 6.23 barrels (bbls) of produced water were released within the earthen tank battery containment berm. Hydrovac trucks were immediately dispatched to the Site and recovered approximately 1 bbl of produced water. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form (Form C-141) on September 2, 2020. The release was assigned Incident Number NRM2024854885.

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 51 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater



well with depth to groundwater data is the New Mexico Office of the State Engineer (NMOSE) well CP-01744, located approximately 275 feet southwest of the Site. The water well has a depth to groundwater of approximately 82 feet bgs. NMOSE well CP-01744 is owned by Ellipse Global and is currently permitted for multiple domestic household use.

NMOSE well CP-00627 appeared to be closest to the Site, however, based on additional review and communication with the NMOSE, well CP-00627 is located 734 feet from the Site and 100 feet northwest of CP-00627-POD2. A latitude and longitude was not provided for CP-00627 in the drilling log so the location was subsequently placed in the center of Unit K, Section 17, Township 21 South, Range 28 East. Under *Additional Statements or Explanations* in the application, it states that well CP-00627 would be moved approximately 100 feet southeast due to a damaged 4-inch PVC casing. The application for CP-00627-POD2 was submitted to replace CP-00627 but that well was never drilled. The transaction number (475176) for the application is found under both Water Right Summaries for well CP-00627 and well CP-00627-POD 2. Figure 1 displays the locations of the water wells researched during the desktop review. Referenced well records are provided in Attachment 2.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream approximately 5,810 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and less than 300 feet from an occupied residence. The Site is less 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 located within a high-potential karst 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): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 1, 2020, WSP personnel conducted site assessment activities to evaluate the release extent. Additionally, WSP reviewed and verified the Form C-141 incident descriptions (release source and release location) with visual soil impacts present onsite; it was confirmed that the subject release was contained to the earthen berm.



WSP personnel collected one representative surface sample from within the release extent. The soil sample was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Based on elevated field screening results, the soil sample was not submitted for laboratory analysis. Additional remediation efforts were warranted and were scheduled to be completed following the upcoming plugging and abandonment (P&A) activities. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Following P&A activities and the removal of inactive subsurface XTO utilities, WSP personnel returned to the Site to oversee excavation activities between July 20, 2021 and July 23, 2021. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples at a frequency of at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS25 were collected from the floor of the excavation from depths ranging from 4 feet to 8 feet bgs. Composite sidewall samples SW01 through SW09 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. Additional soil could not be removed in the area around sidewall sample SW05 due to the proximity of an active third-party gas line. The excavation soil sample locations and excavation extent were mapped utilizing a handheld Global GPS unit and are depicted on Figure 2.

The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Midland, Texas, for analysis of BTEX following EPA Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The final excavation extent measured approximately 4,525 square feet. A total of approximately 1,080 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility under XTO approved manifests. After completion of confirmation sampling, the excavation was secured with fencing.

Laboratory analytical results for the excavation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all sidewall samples except SW05, which was collected along the sidewall adjacent to the third-party



active gas line. Additional soil could not be removed in the area beneath and around sidewall sample SW05 due to safety policies in place for the third-party active gas line. Laboratory analytical results indicated that benzene, BTEX, and TPH concentrations were compliant with the Closure Criteria in all floor samples collected from the final excavation extent. Laboratory analytical results indicated that chloride concentrations exceeded the Closure Criteria in floor samples FS03 through FS05, FS07 through FS09, FS11 through FS13, FS15 through FS18, and FS25. Photographic documentation was conducted during the Site visits. A photographic log is provided in Attachment 3.

Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On July 26, 2021, WSP personnel returned to the Site to complete delineation activities via Core Drill. Boreholes BH01 and BH02 were advanced to a depth of 18 feet bgs within the open excavation to the define the vertical extent of impacted soil left in place. One delineation soil sample was submitted for laboratory analysis from boreholes BH01 and BH02 from a depth of 18 feet bgs, where field screening results indicated a clean vertical depth. Borehole BH03 was advanced to a depth of 18 feet bgs east of the active third-party gas line to define the lateral extent of impacted soil left in place around the gas line. Delineation soil samples were collected from borehole BH03 from depths ranging from 1-foot to 18 feet bgs. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Attachment 5. The delineation soil samples were collected and analyzed as described above. The borehole locations were mapped utilizing a handheld Global GPS unit and are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH03 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the laboratory analytical results, the lateral and vertical extent of chloride impacted soil left in place was successfully defined.

The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

PROPOSED REMEDIATION WORK PLAN

To address the remaining impacts, which are characterized by chloride concentrations ranging from 640 mg/kg to 4,410 mg/kg and extending to a depth of up to 18 feet bgs, WSP proposes installation of a liner to mitigate further impacts into the subsurface. WSP does not believe additional excavation is warranted, as impacts in the top 4 feet have been removed and groundwater is documented to be greater than 51 feet bgs at the Site. Delineation and excavation



soil sampling provided full lateral and vertical delineation of the remaining impacted soil beneath the excavation.

XTO proposes to install a 20-mil impermeable liner over the impacted soil within excavation. Once complete, XTO will backfill the area with non-waste containing soil. The proposed liner extent is shown on Figure 4. Following approval of this work plan by NMOCD, XTO will coordinate the liner installation and backfilling activities.

DEFERRAL REQUEST

A total of approximately 1,080 cubic yards of impacted soil were excavated from the Site; however, due to safety policy, residual impacted soil was left in place immediately adjacent to a third-party active gas line. Laboratory analytical results for excavation sidewall sample SW05 indicated that soil with a chloride concentration of 3,420 mg/kg was left in place.

The impacted soil remaining in place is delineated vertically and laterally by excavation soil samples SW04, SW06, FS06, and FS10, collected from the sidewalls and floor of the final excavation extent, and delineation soil samples collected from borehole BH03. An estimated 109 cubic yards of impacted soil remains in place, assuming a maximum 4-foot depth based on the excavation and delineation soil samples listed above, that were compliant with the Closure Criteria and the installation of the proposed liner.

XTO requests to complete final remediation after decommissioning of the third-party active gas line. If additional chloride impacted soil is encountered after decommissioning of the line, remediation activities will include achieving a clean eastern sidewall boundary via excavation of the top four feet and extending the liner. WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The majority of the released fluids were recovered during initial response activities, the impacted soil remaining in place is limited to the area immediately around the third-party active gas line, and no saturated soil remains in-place. XTO requests deferral of final remediation for the area immediately surrounding the third-party active gas line. The deferral request area is depicted on Figure 4.



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

Sincerely,

WSP USA Inc.

Joseph S. Hernandez

Associate Consultant, Geologist

Ashley L. Ager, M.S., P.G.

Ashley L. Ager

Assistant Vice President, Geologist

cc: Adrian Baker, XTO

Incident Catering Services LLC DBA Ellipse Global

Attachments:

Figure 1 Site Location Map

Figure 2 Excavation Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Proposed Liner and Deferral Area

Table 1 Soil Analytical Results

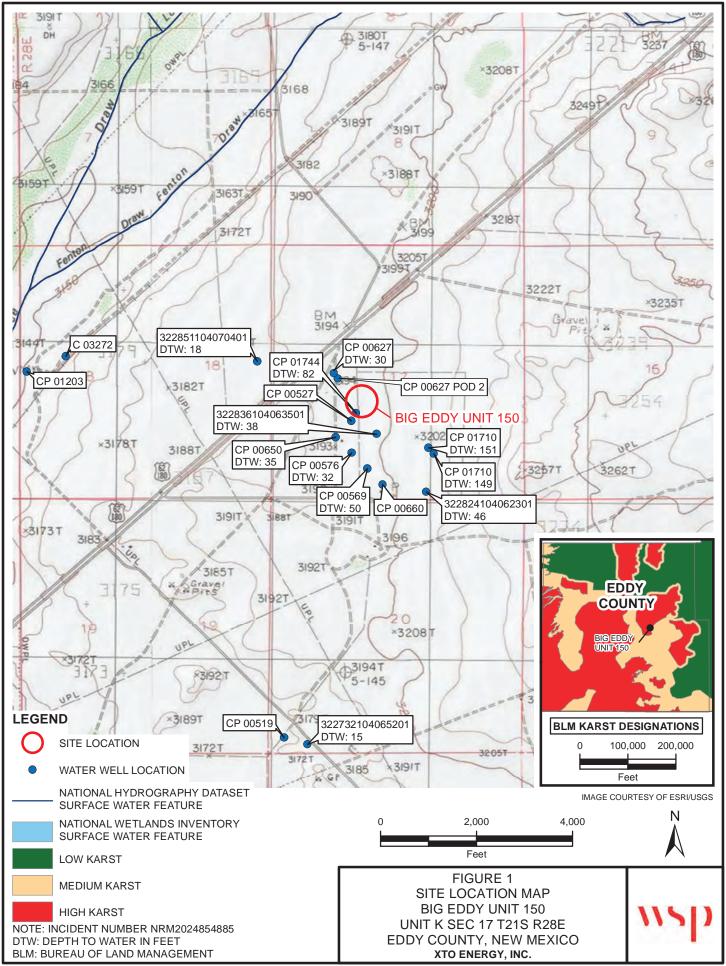
Attachment 1 Energy Transfer I.28 Right of Way Encroachment

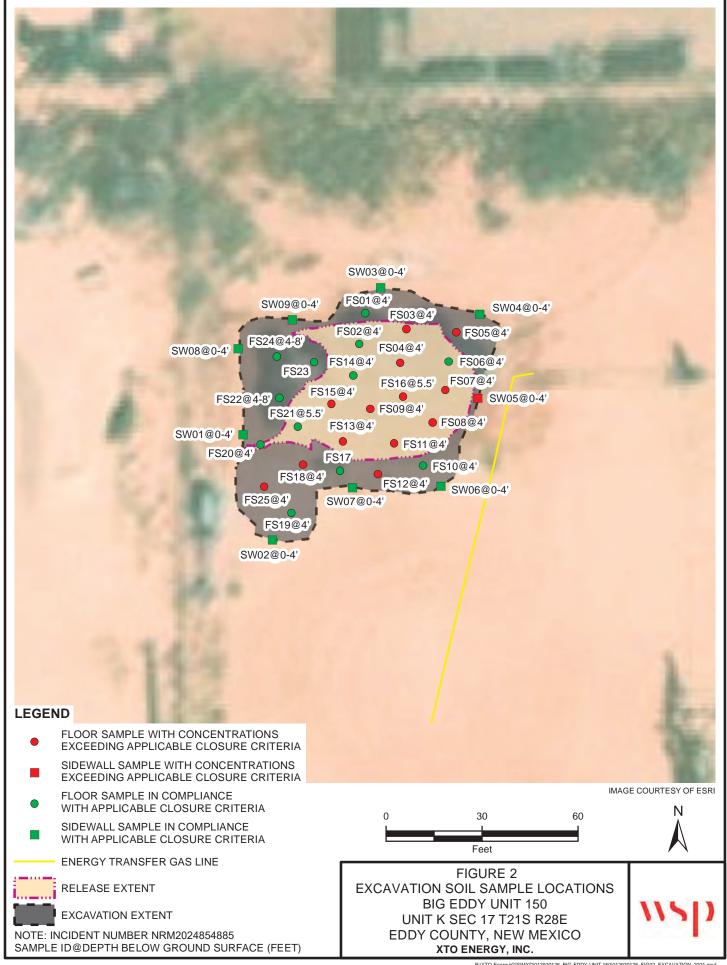
Attachment 2 Referenced Well Records

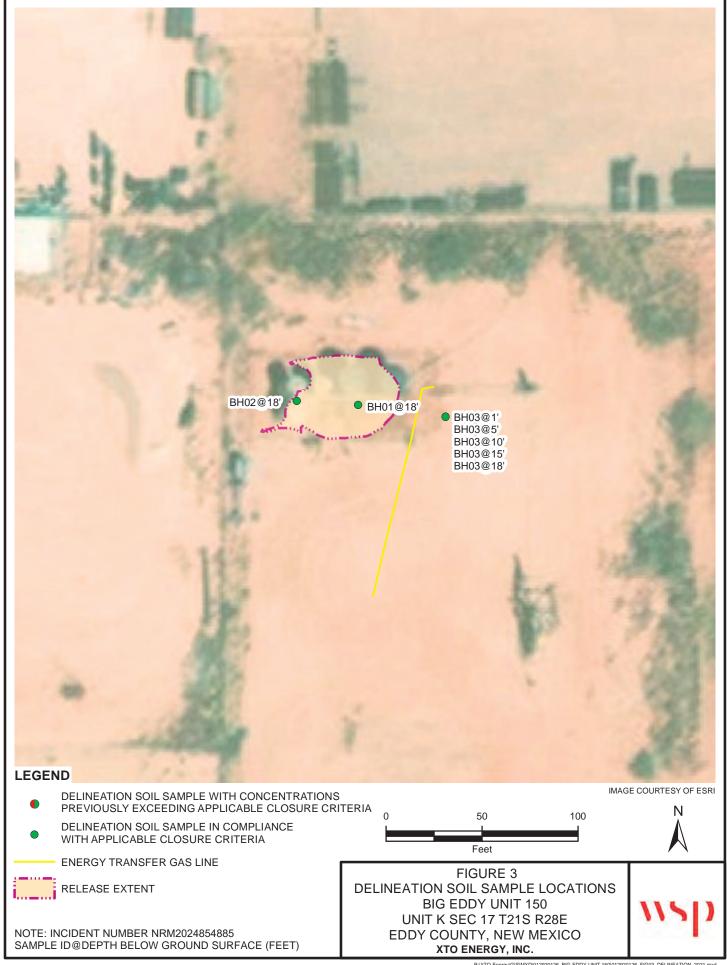
Attachment 3 Photographic Log

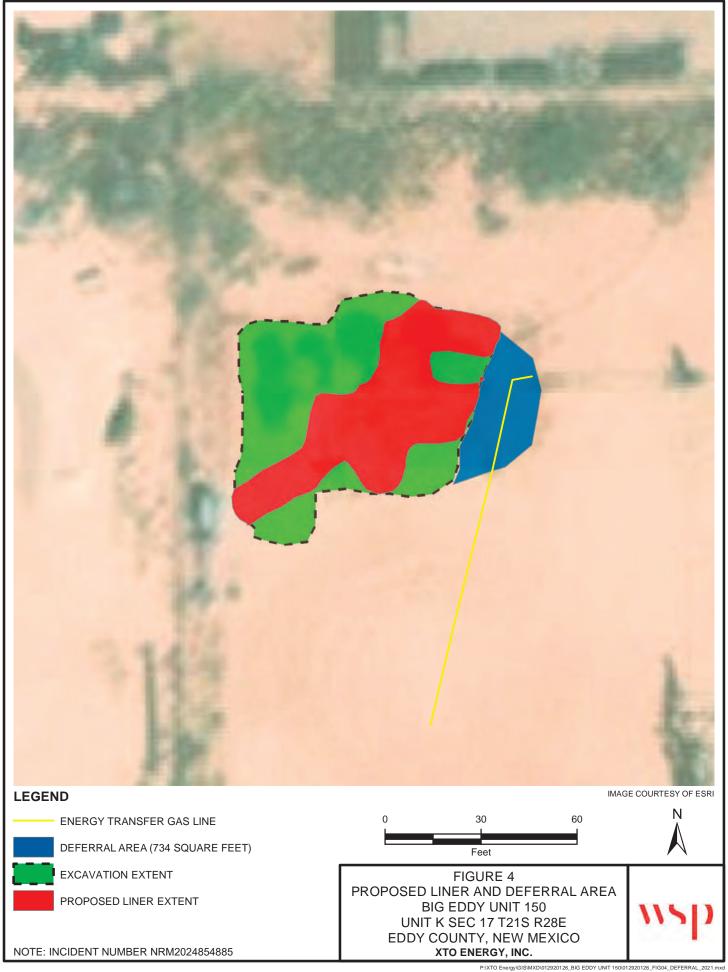
Attachment 4 Laboratory Analytical Reports

Attachment 5 Lithologic / Soil Sampling Log









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Table 1

Soil Analytical Results Big Eddy Unit 150 Incident Number NRM2024854885 XTO Energy, Inc. Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|------------------|---------------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|-------------|---------------------|
| NMOCD Table 1 C | losure Criteria (NM | AC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Sidewall Samples | | | | | | | | | | |
| SW01 | 07/21/2021 | 0-4 | < 0.00200 | < 0.00401 | <49.9 | 86.3 | <49.9 | 86.3 | 86.3 | 317 |
| SW02 | 07/22/2021 | 0-4 | < 0.00202 | < 0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 449 |
| SW03 | 07/21/2021 | 0-4 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 411 |
| SW04 | 07/21/2021 | 0-4 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 521 |
| SW05 | 07/20/2021 | 0-4 | < 0.00200 | < 0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,420 |
| SW06 | 07/21/2021 | 0-4 | < 0.00202 | < 0.00403 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 407 |
| SW07 | 07/21/2021 | 0-4 | < 0.00200 | < 0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 375 |
| SW08 | 07/21/2021 | 0-4 | < 0.00201 | < 0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 37.3 |
| SW09 | 07/21/2021 | 0-4 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 438 |
| loor Samples | • | | | | | | | | | |
| FS01 | 07/22/2021 | 4 | < 0.00199 | < 0.00398 | <50.0 | < 50.0 | <50.0 | <50.0 | < 50.0 | 246 |
| FS02 | 07/22/2021 | 4 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 149 |
| FS03 | 07/22/2021 | 4 | < 0.00201 | < 0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 640 |
| FS04 | 07/22/2021 | 4 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 709 |
| FS05 | 07/22/2021 | 4 | < 0.00201 | < 0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,610 |
| FS06 | 07/20/2021 | 4 | < 0.00202 | < 0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 167 |
| FS07 | 07/20/2021 | 4 | < 0.00200 | < 0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 4,410 |

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Table 1

Soil Analytical Results Big Eddy Unit 150 Incident Number NRM2024854885 XTO Energy, Inc. Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|------------------|--------------------|--------------------------|--------------------|--------------|--------------------|--------------------|--------------------|-----------------------------|-------------|---------------------|
| NMOCD Table 1 Cl | osure Criteria (NM | AC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| FS08 | 07/20/2021 | 4 | < 0.00202 | < 0.00403 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 2,040 |
| FS09 | 07/21/2021 | 4 | < 0.00200 | < 0.00400 | <50.0 | 83.9 | <50.0 | 83.9 | 83.9 | 2,470 |
| FS10 | 07/22/2021 | 4 | < 0.00198 | < 0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 596 |
| FS11 | 07/22/2021 | 4 | < 0.00200 | < 0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,470 |
| FS12 | 07/22/2021 | 4 | < 0.00200 | < 0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 654 |
| FS13 | 07/22/2021 | 4 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,350 |
| FS14 | 07/22/2021 | 4 | < 0.00201 | < 0.00402 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | 265 |
| FS15 | 07/22/2021 | 4 | < 0.00200 | < 0.00400 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 988 |
| FS16 | 07/23/2021 | 5.5 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,130 |
| FS17 | 07/22/2021 | 4 | < 0.00200 | < 0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 737 |
| FS18 | 07/22/2021 | 4 | < 0.00198 | < 0.00396 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,180 |
| FS19 | 07/22/2021 | 4 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 248 |
| FS20 | 07/22/2021 | 4 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 286 |
| FS21 | 07/23/2021 | 5.5 | < 0.00200 | < 0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 438 |
| FS22 | 07/23/2021 | 4-8 | < 0.00200 | < 0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 24.2 |
| FS23 | 07/22/2021 | 4 | < 0.00200 | < 0.00400 | <50.0 | 75.3 | <50.0 | 75.3 | 75.3 | 489 |
| FS24 | 07/23/2021 | 4-8 | < 0.00200 | < 0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 149 |
| FS25 | 07/22/2021 | 4 | 0.00543 | 0.0302 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,670 |

Received by OCD: 8/13/2021 12:39:46 PM

Table 1

Soil Analytical Results Big Eddy Unit 150 Incident Number NRM2024854885 XTO Energy, Inc. Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|----------------------------|--------------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Clo | osure Criteria (NM | AC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Delineation Samples | | | | | | | | | | |
| BH01 | 07/26/2021 | 18 | < 0.00198 | < 0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 342 |
| BH02 | 07/26/2021 | 18 | < 0.00200 | < 0.00399 | < 50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 113 |
| BH03 | 07/26/2021 | 1 | < 0.00200 | < 0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 94.8 |
| BH03 | 07/26/2021 | 5 | < 0.00198 | < 0.00396 | < 50.0 | < 50.0 | <50.0 | < 50.0 | <50.0 | 112 |
| BH03 | 07/26/2021 | 10 | < 0.00200 | < 0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 200 |
| BH03 | 07/26/2021 | 15 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | < 50.0 | <50.0 | < 50.0 | 36.6 |
| BH03 | 07/26/2021 | 18 | < 0.00202 | < 0.00403 | <50.0 | <50.0 | < 50.0 | <50.0 | < 50.0 | 26.5 |

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

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

Volume I – PIPELINE



Standard Operating Procedures

Right-of-Way Encroachments/Activities

Applicable to Natural Gas Pipelines and Related Facilities

| Code Reference | | Procedure No.: 1.28 | | | | |
|---------------------------------|---|-------------------------------|----------------------|--|--|--|
| 49 CFR 192.93! | 5 (b) (iv) | Effective Date: 11/01/18 | Page 1 of 40 | | | |
| 1.0 Procedure Description | This Standard Operating Procedure (SOP way encroachments/activities including | _ | company right-of- | | | |
| 2.0 Scope | Use the guidelines in this SOP to control, with the potential to damage company processing company. | | | | | |
| 3.0 Applicability | This SOP applies to encroachments/activ | rities on regulated company | pipeline facilities. | | | |
| 4.0 Frequency | As required: for all encroachments/activ | ities on or near company ri | ght-of-way. | | | |
| 5.0 Governance | The following table describes the respon operations described in this SOP. | sibility, accountability, and | authority of the | | | |

| Function | Responsibility | Accountability | Authority |
|--|-------------------------|-----------------------|---------------------------|
| Encroachments of Company Pipeline Facilities | Operations Personnel | Operations Manager | Director of Operations |

Standard Operating Procedures Volume I – PIPELINE

Right-of-Way Encroachments/Activities

| Code Reference: | Procedure No.: I.28 | |
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| Function | Responsibility | Accountability | Authority |
|--|---|---|--|
| Undefined Easement Required Offsets | Operations Personnel | Right-of-Way Representative/ Encroachments Group | Right-of-Way Representative/ Encroachments Group |
| Restrictions on Encroachments | Operations Personnel | Operations Manager/Right-of- Way Representative | Director of Operations/Right- of-Way Representative |
| Proposed Site Encroachment Investigation | Operations Personnel/ Encroachments Group | Operations Manager/ Encroachments Group | Director of Operations/ Encroachments Group |
| Foreign Line Crossing Methods | Operations Personnel/ Encroachments Group | Operations Manager/ Encroachments Group | Director of Operations/ Encroachments Group |
| Investigation of Unknown Encroachments in Progress | Operations Personnel | Right-of-Way Representative/ Encroachments Group | Right-of-Way Representative/ Encroachments Group |
| Legal Action | Right-of-Way Representative/ Encroachments Group | Right-of-Way Representative/ Encroachments Group | Right-of-Way Representative/ Encroachments Group |

6.0 Terms and Definitions Terms associated with this SOP are provided in SOP <u>A.01 Glossary and Acronyms</u>.

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Right-of-Way Encroachments/Activities

| Code Reference: | Procedure No.: 1.28 | |
|-------------------------|---------------------|--------------|
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| Terms | Definitions |
|--------------------|---|
| Easement | Legal document recorded and/or on file controlling company right-of-way. |
| Encroachment | Any use and/or activity on or near company right-of-way which could create safety concerns for company pipeline facilities or interferes with company property or easment rights. |
| Right-of-Way (ROW) | Physical route through real estate belonging to another defined by the easement. |
| Undefined Easement | Easement which does not limit the right-of-way to a detailed dimensional specification and route through the real estate covered by the easement. |

7.0 Right-of-Way Encroachments/ Activities

This SOP contains the following sections:

- Encroachment of company pipeline facilities
- Undefined easement required offsets
- Restrictions on encroachments
- Proposed site encroachment investigation
- Foreign line crossing methods
- Investigation of unknown encroachments in progress
- Legal action

7.1 Encroachments of Company Pipeline

Operations Personnel follow the procedure below when notification of work is encroaching on or near company right-of-way.

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Right-of-Way Encroachments/Activities

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Facilities



NOTE: Operations Personnel follow *section 7.3.2* of SOP <u>I.31 One-Call System and Field</u> Response.

| Step | Activity |
|------|--|
| 1 | ADVISE encroaching party of the nature of the product in the company pipeline facilities and the potential hazards. |
| 2 | CONSULT Right-of-Way Representative or Encroachments Group to REVIEW the terms of the easement for the tract of land involved. |
| 3 | REVIEW the total scope of the project and maintain contact with the contractors, developers, landowners and others until the work is complete. |
| 4 | PROVIDE a company representative to field locate and stake company pipeline facilities per SOP <u>B.04 Pipe Location and Marking</u> . |
| 5 | CONFIRM excavation methods will be completed per SOP <u>I.10 Excavation</u> and <u>Backfill</u> if company pipeline facilities will be excavated by a third party excavator and/or landowner. |



NOTE: Prevent foreign easements from encroaching into company right-of-way when proposed foreign construction is parallel to and outside of company right-of-way.

| Step | Activity |
|------|--|
| 6 | REFER to SOP <u>D.35 Buried Pipe Inspections</u> when buried company pipeline |
| | facilities may be exposed. |

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Right-of-Way Encroachments/Activities

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NOTE: An encroachment of company right-of-way may require, as determined by Operations, a letter of no objection, crossing agreement or similar type document executed by a Right-of-Way Representative and filed in the applicable tract file.

PROVIDE a copy of Appendix B: Engineering and Construction Guidelines or a modified version of the guidelines as approved by the Right-of-Way Group or Encroachments Group to the contractors, developers, landowners and others.
 VERIFY a company representative will be on-site any time work is performed within the company right-of-way.



WARNING: Stop any work if it could cause damage, affect the safety and/or integrity of company pipeline facilities, is prohibited by the easement or is a violation of company rights. The on-site company representative has authority to contact local law enforcement to protect company pipeline facilities when necessary. **CONSIDER** delivery of cease and desist letter to third party excavator or landowner. Refer to section *7.7 Legal Action* below.

| 9 | COMPLETE the applicable form(s) for <i>Encroachment Foreign Line Crossing Report</i> . |
|----|---|
| 10 | DOCUMENT in the applicable electronic database, as required. |

7.2 Undefined Easement Required Offsets In the case where the company has an undefined easement, Operations Personnel maintains the following offset distances for proposed foreign encroachments/activities.

| Step | Activity |
|------|---|
| 1 | CONSULT Right-of-Way Representative or Encroachments Group to |

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Right-of-Way Encroachments/Activities

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| | EXAMINE the terms of the easements prior to establishing offset distances for contractors, developers, landowners and others. |
|---|---|
| 2 | LIMIT any encroachments/activities to a minimum distance of 50 feet from either side of a company pipeline when the company has an undefined easement. |
| 3 | VERIFY the offset distance is measured from the outside of the outermost pipeline (whether existing or proposed) when multiple company pipelines exist within the same corridor. |



NOTE: Additional widths may be required for new encroachments/activities (e.g., buildings, trees, structures, or obstructions) within undefined easements when multiple line rights exist.

| Step | Activity |
|------|---|
| 4 | OBTAIN prior written approval from the Director of Operations/Right-of-Way Representative/Encroachments Group for any variance from the footage requirements pertaining to company undefined easement encroachments. |
| 5 | The Right-of-Way Representative/Encroachments Group will DOCUMENT authorization in the applicable tract file. |

7.3 Restrictions on Encroachments

Operations Personnel follow the procedure below regarding any encroachments/activities within company right-of-way.



CAUTION: Additional precautions pertaining to specific encroachments to avoid possible conflicts and/or hazards are listed in the following subsections. It is not the intent of this SOP to list all possible prohibited encroachments/activities affecting company right-of-way/pipeline facilities which include but are not limited to the

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Right-of-Way Encroachments/Activities

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following: air strip, athletic field, berm/terrace, building, campground, cemetary, chattel, dam/dike, drain, earthwork, garage, georthermal system, house/mobile home, lake/pond/reservoir, landfill, logging operation, material storage, mine/quarry, pole/signage, septic system, soil boring, swimming pool, tower, vehicle/equipment parking, wells, wetland or other improvments including any facility causing the permanent or temporary retention of water and any associated appurtenances, anchors/guys, foundations, junction boxes or supports. Consult the company Right-of-Way Representative/Encroachments Group and Operations Manager regarding any encroachments/activities not included in this SOP.

| Step | Activity | | |
|------|---|--|--|
| 1 | CONSULT the Right-of-Way Representative/Encroachments Group to | | |
| | EXAMINE the terms of the easements prior to establishing offset distances and restrictions for contractors, developers, landowners and others. | | |



WARNING: Company pipelines with couplings and acetylene welds may be affected by encroachment activities. Safeguards per SOP <u>I.15 Coupled Pipeline and Acetylene Weld Reinforcement</u> need to be taken in areas where an adverse pipeline or site condition (insufficient cover, soil movement, vertical or side bend, etc.) exists possibly causing a coupling slip during activities or over stressing an acetylene weld.

| 2 | RESTRICT any encroachments/activities within the company right-of-way not permissible under the terms of the easement. |
|---|--|
| 3 | CONSULT the Pipeline Specialist/Engineer or Encroachments Group to DETERMINE per SOP <u>I.27 Determination of Abnormal Loading</u> if external loading from construction equipment and/or traffic traveling on finished surfaces crossing company pipeline facilities is within acceptable limits. |
| 4 | VERIFY the excavator and/or landowner uses bridging or matting, when required, to cross company pipeline facilities with construction equipment. |
| 5 | PROVIDE protection for company pipeline facilities when damage could occur from the proximity of an approved foreign structure and adequate clearance cannot be attained. |

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| 6 | REFER to SOP <i>I.10 Excavation and Backfill</i> when an encroachment requires any excavation and/or backfill within company right-of-way. |
|---|--|
| 7 | REFER to SOP <u>D.35 Buried Pipe Inspections</u> when buried company pipeline facilities may be exposed. |
| 8 | OBTAIN prior approval from the Operations Manager/Right-of-Way Representative/Encroachments Group for any variance of the encroachment guidelines in the following subsections. |
| 9 | The Right-of-Way Representative/Encroachments Group will DOCUMENT authorization in the applicable tract file. |



NOTE: Additional offset distances from company pipeline facilities may be required for activities outside of company right-of-way limits (e.g., blasting, mining, wind turbines, cell/radio towers).

7.3.1 Agricultural Drain Tile

For agricultural drain tile follow the procedure below. See *Section 7.3.7 Foreign Lines* (*Onshore*) for non-agricultural drain tile.



CAUTION: Reference section 7.3.7 Foreign Lines (Onshore) below. Extra precautions are necessary when agricultural drain tiles cross company pipeline facilities due to the nature, frequency and potential impact.

| | Step | Task |
|---|------|--|
| · | 1 | REPORT any proposals to place agricultural drain tile across or parallel to company right-of-way to the Right-of-Way Representative and Operations Manager. |

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| 2 | 2 ALLOW agricultural drain tiles to cross company pipeline facilities at or n right angles to company right-of-way with adequate clearance. | |
|---|--|--|
| 3 | OBTAIN prior approval from the Operations Manager if adequate clearance cannot be attained. VERIFY there is enough clearance not to interfere with future company maintenance or construction. | |



CAUTION: Where a minimum clearance of 12 inches cannot be attained and if approved by Operations Manager ensure company pipeline facilities are protected from possible damage due to the proximity of an agricultural drain tile.

4 **RESTRICT** parallel agricultural drain headers from within the company right-of-way.



NOTE: Where applicable parallel agricultural drain tile headers may be approved by Operations Management to be installed no closer than 25 feet from company pipeline facilities.

7.3.2 Blasting

Follow the procedure below to monitor blasting outside of company right-of-way and within 300 feet of company pipeline facilities in accordance with SOP <u>I.23 Protection of Pipeline Facilities From Blasting Operations</u> to verify it is not detrimental to company pipeline facilities.



WARNING:

- Immediately stop any blasting endangering company pipeline facilities.
- Do not allow blasting within company right-of-way without the permission of the Director of Operations.

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7.3.3 Communication Cables (e.g. Fiber Optic, Telephone, TV) For communication cables installed by <u>open cut</u> construction methods follow the procedure below. Communication cables include but are not limited to underground fiber optic, telephone and television cables.



CAUTION: Reference section 7.3.7 Foreign Lines (Onshore) below. Extra precautions are necessary when communication cables cross company pipeline facilities due to the nature, frequency and potential impact.

| Step | Task | |
|------|---|--|
| 1 | VERIFY communication cables are placed in a rigid non-metallic conduit with bags of concrete-mix placed directly above and below the conduit across company right-of-way or similar company approved method. | |
| 2 | VERIFY warning burial tape is placed the width of company right-of-way at least 18 inches directly above communication cables. | |
| 3 | RECOMMEND the communication cable owner mark the crossing route clearly and permanently on each side of company right-of-way. | |

7.3.4 Ditches and Waterways

For ditches and waterways follow the procedure below.



CAUTION: Discourage ditches/waterways from crossing company right-of-way. Do not allow parallel ditches and waterways within company right-of-way.

1 REPORT any proposals to place a ditch/waterway across or parallel to company right-of-way to the Right-of-Way Representative/Encroachments

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| | Group and Operations Manager. | |
|---|---|--|
| 2 | ALLOW a ditch/waterway to cross a company right-of-way at or near right angles with a minimum 48 inches of cover remaining to the top of company pipeline facilities at the lowest point of the ditch/waterway. | |
| 3 | OBTAIN prior approval from the Operations Manager/Encroachments Group when minimum of 36 inches of cover cannot be maintained. REQUIRE mechanical protection and/or erosion control (e.g., concrete lined bottom, articulating grout mat, buried culvert, rip rap) with a minimum clearance of 12 inches from company pipeline facilities the entire width of company right-of-way. | |
| 4 | CONSULT the Pipeline Specialist/Engineer or Encroachments Group to EVALUATE company pipeline facilities for buoyancy and the need for river weights. | |



NOTE: Culvert material shall be constructed of non-metallic material and installed to consider protection to company pipeline facilities when damage could occur from the proximity of an approved culvert.

7.3.5 Dredging

For dredging in existing waterways follow the procedure below.



WARNING: Stop any unapproved dredging operations near company pipeline facilities immediately.

| Step | Activity | |
|------|--|--|
| 1 | NOTIFY the Right-Of-Way Representative/Encroachments Group and Operations Manager of dredging operations. | |
| 2 | PROFILE waterways crossing company pipeline facilities where dredging is | |

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| Step | Activity | | |
|------|---|--|--|
| | proposed. | | |
| 3 | RESTRICT any dredging closer than 6 feet above company pipeline facilities the width of the entire company right-of-way. | | |

7.3.6 Fences

For fences follow the procedure below.

| Step | Activity | |
|------|--|--|
| 1 | PERMIT wire type fences for agricultural purposes to cross company right-ofway. | |
| 2 | VERIFY all fence crossings are at or near right angles to company right-ofway and access gates or walkovers are installed where required. | |



WARNING: Fence posts must be spaced and installed so they are not directly over company pipeline facilities with a company representative on site. Verify there is enough clearance not to interfere with future company maintenance or construction.



CAUTION:

- Prohibit any fencing parallel to and within company right-of-way.
- Do not permit any chain link, hurricane wire, stone, brick, concrete, privacy, decorative,
- Prohibit any fencing obstructing access or line of sight for patrol/inspection or identification markers

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7.3.7 Foreign Lines (Onshore)

For foreign lines (onshore) crossings follow the procedure below.

| Step | Activity | |
|------|--|--|
| 1 | DETERMINE the construction method to complete the foreign line crossing: | |
| | Open Cut | |
| | Dry Bore | |
| | Direction Drill | |
| | Reference section 7.5 Foreign Line Crossing Methods below. | |
| 2 | REQUEST any foreign line crossing to cross under company pipeline facilities with clearance as specified in <i>Appendix B ROW Engineering and Construction Guidelines</i> . VERIFY there is enough clearance not to interfere with future company maintenance or construction. | |
| 3 | OBTAIN prior approval from the Operations Manager and/or Encroachments Group when company pipeline facilities are unreasonably deep to allow a foreign line crossing to be installed over the top or reduce the amount of clearance between a foreign line and company pipeline facilities. | |
| 4 | COMPLETE an investigation dig(s) on company pipeline facilities, if necessary, before construction of a foreign line crossing. | |



CAUTION: Do not allow any foreign line(s) to be constructed parallel to and/or allow foreign structures, appurtenances or related fittings within company right-of-way.

| Step | Activity |
|------|--|
| 5 | PERFORM corrosion related tasks before and during foreign line crossings as |

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| required. |
|-----------|
| |



NOTE: Operations Personnel must consult the Company Corrosion Specialist when a foreign cathodically protected line is installed across company pipeline facilities to determine the need for installation of bond/test lead stations on the foreign and company pipeline facilities.

| Step | Activity |
|------|--|
| 6 | REFER to SOP <u>D.35 Buried Pipe Inspections</u> when buried company pipeline |
| | facilities may be exposed. |
| 7 | VERIFY construction of the foreign line will limit the length of time company |
| | pipeline facilities are exposed. |
| 8 | REINFORCE couplings and acetylene welds where required prior to |
| | construction of foreign lines. Reference SOP <u>I.15 Coupled Pipeline and</u> |
| | Acetylene Weld Reinforcement. |
| 9 | PLACE warning tape a minimum of 18 inches above any foreign line crossing |
| | company right-of-way. |
| 10 | RECOMMEND foreign line owners mark the crossing route clearly and |
| | permanently on each side of company right-of-way. |

7.3.8 Parking Areas

Do not allow permanent parking areas within company right-of-way; for <u>temporary</u> parking areas follow the procedure below.

| Step | Activity |
|------|---|
| 1 | REVIEW the affected company pipeline facilities attributes including but not limited to: |
| | Diameter, wall thickness, grade |

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Right-of-Way Encroachments/Activities

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| Step | Activity |
|------|---|
| | Vintage, seam and weld type |
| | Established maximum allowable operatring pressure |
| | Class and/or HCA |
| | Existing anomalies |



NOTE: To determine the possible need for alterations to company pipeline facilities and to comply with Federal and State regulations parking area plans must be reviewed and approved by the Right-of-Way Representative, Encroachments Group, Pipeline Specialist/Engineer and Director of Operations before construction begins.

| Step | Activity |
|------|--|
| 2 | DETERMINE per SOP <u>I.27 Determination of Abnormal Loading</u> whether external loading from traffic traveling on parking surfaces crossing company pipeline facilities is within acceptable limits. |
| 3 | VERIFY the remaining cover under the parking area at the shallowest point will be at least 36 inches. |
| 4 | INSTALL gas leak stations at a minimum of every 25 feet directly over the centerline of company pipeline facilities. |

7.3.9
Power /
Communication
Lines (Overhead)

For power/communication lines (overhead) follow the procedure below.

| Step | Activity |
|------|----------|
| | |

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| 1 | REPORT to Operations Manager, Encroachments Group and Corrosion Specialist if a proposed above ground power line will be constructed parallel to and outside of company right-of-way within 300 feet of company pipeline facilities. |
|---|---|
| 2 | ALLOW overhead power/communication lines to cross company pipeline facilities with a minimum vertical overhead clearance to grade of 25 feet. |
| 3 | VERIFY all overhead power/communication line crossings are at or near right angles to company right-of-way. |



WARNING: Do not allow new power lines over existing blow-offs or relief valves. Do not allow power line towers to straddle the company right-of-way or power line tower footings to encroach within company right-of-way.

7.3.10 Power Lines (Underground)

For power lines (underground) installed by <u>open cut</u> construction methods follow the procedure below.



CAUTION: Reference section 7.3.7 Foreign Lines (Onshore) above. Extra precautions are necessary when power lines (underground) cross company pipeline facilities due to the nature, safety and potential impact.

| Step | Activity |
|------|---|
| 1 | REFER requests for the installation of buried power cable crossings to the Operations Manager, Right-of-Way Representative/Encroachments Group, and Corrosion Specialist to establish the requirements for each crossing. |
| 2 | ESTABLISH the requirements for underground power cables/lines with consideration given to the number of cables/lines, voltage, cable/line loading, grounding system, spacing of cables/lines, phase, proximity of transmission cable/line facilities to company facilities, location of cathodic |

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| Step | Activity | |
|------|---|--|
| | protection facilities, soil type, coating and depth of cover. | |
| 3 | VERIFY the following requirements are provided: | |
| | Minimum 36 inches of clearance below the bottom of company pipeline facilities the entire width of company right-of-way for power cables over 600 volts. | |
| | Neutrals are externally spirally wound and grounded on each side of company right-of-way. | |
| | Placed in a rigid non-metallic conduit with bags of concrete-mix placed directly above and below the conduit across the entire width of company right-of-way or similar company approved methods. | |
| | Red warning burial tape is placed the width of company right-of-way at least 18 inches directly above the cable. | |
| 4 | RECOMMEND the power line cable owner mark the crossing route clearly and permanently on each side of company right-of-way. | |

7.3.11 New or Modified Roads, Railroads or Driveways

For new or modified roads, railroads or driveways follow the procedure below.



CAUTION: Prohibit any road, railroad or driveway from being constructed parallel to and within company right-of-way; or allow related foreign structures, appurtenances or signage within company right-of-way.

| Step | Activity |
|------|---|
| 1 | DETERMINE the physical status of and review available data of affected |
| | company pipeline facilities. |

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NOTE: When determined necessary reference *BP I.36 Pipeline Road and Rail Crossings* to determine the possible need for company pipeline facility alterations and to comply with Federal and State regulations. Road, railroad or driveway construction/modification plans must be reviewed and approved by the Right-of-Way Representative/Encroachments Group, Pipeline Specialist and Director of Operations before construction begins.

| 2 | ALLOW a new road, railroad or driveway to cross company right-of-way at or near right angles. |
|---|--|
| 3 | VERIFY the remaining cover at the shallowest point will be at least 36 inches to the top of company pipeline facilities. Additional cover may be required as prescribed in individual state regulations i.e. Texas requires 48 inches of cover. |
| 4 | DETERMINE per SOP <i>I.27 Determination of Abnormal Loading</i> whether external loading from traffic traveling on a road, railroad or driveway crossing company pipeline facilities is within acceptable limits. |



NOTE: Depth of cover should not exceed 7 feet from the top of the pipe to final grade. Engineering stress calculations must be performed and approved prior to allowing any cover exceeding 7 feet.

7.3.12 Seismography

For seismography activity follow the procedure below.



CAUTION: Do not allow any seismographic activity within 300 feet of company pipeline facilities without the approval of the Pipeline Specialist/Engineer or Encroachments Group.

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| Step | Activity |
|------|--|
| 1 | RECOMMEND the third party seismic company call the respective state One-Call or 811 center prior to the start of their project. |

7.3.13 Sidewalks, Paths and Trails

For sidewalks, paths and trails follow the procedure below.

| Step | Activity |
|------|--|
| 1 | VERIFY the sidewalks, paths and trails do not exceed 48 inches in width without prior approval of a Right of Way Representative/Encroachments Group and Operations Manager. |
| 2 | ALLOW sidewalks, paths and trails to cross at or near right angles to company right-of-way. |

7.3.14 Subdivisions

Verify the contractors, developers, landowners and others submit subdivision plats to a company Right-of Way Representative/Encroachments Group and Operations Manager for review and approval.

7.3.15 Vegetation

For vegetation follow the procedure below.

| Step | Activity |
|------|--|
| 1 | CONSULT the Right-of-Way Representative/Encroachments Group to |
| | EXAMINE the terms of the easements prior to restricting planting of any vegetation within company right-of-way. |

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| Step | Activity |
|------|--|
| 2 | PROHIBIT any planting of trees, bushes, shrubs, vines, and/or any other landscape planting within company right-of-way. |
| 3 | VERIFY vegetation does not obstruct company patrol/inspection or identification markers. |

7.3.16 Water Impoundments

For water impoundments follow the procedure below.



CAUTION:

- Do not allow water impoundments on company right-of-way. This excludes water impoundments for such things as rice, cranberry bogs and crawfish farming.
- Do not allow any portion of any dike, berm or dam to be constructed on company right-of-way.
- Do not remove cover or overburden from company right-of-way to assist in the construction of a dike, berm or dam.

7.3.17 Wells

For wells follow the procedure below.

| Step | Activity |
|------|---|
| 1 | REPORT wells drilled within 100 feet of company pipeline facilities to a company Right-of-Way Representative/Encroachments Group and Corrosion Specialist. |

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CAUTION: Do not allow any foreign wells (water, oil, gas, storage, disposal or other) to be drilled on company right-of-way.

2 **NOTIFY** well owners of company cathodic protection systems and the possibility of interference.

7.3.18
Wind Turbine,
Communication
Towers (e.g. Cell,
Radio,
Microwave)

For foreign towers follow the procedure below.

| Step | Activity | | |
|------|---|--|--|
| 1 | NOTIFY a company Right-of-Way Representative/Encroachments Group, | | |
| | Communication Specialist and Corrosion Specialist of any plans to install a | | |
| | foreign tower within one mile of company facilities/towers. | | |
| 2 | RESTRICT placement of foreign towers from within 1500 feet of company | | |
| | facilities/towers. REFER requests for the installation of a foreign tower within | | |
| | 1500 feet of company facilities/towers to the Operations Manager, Right-of- | | |
| | Way Representative/Encroachments Group, Pipeline Specialist, | | |
| | Communication Specialist, Corrosion Specialist and Manager of Patrol Pilots | | |
| | to establish the minimum offset for each foreign tower with consideration | | |
| | given to tower height, aerial patrol, tower/blade failure, ice throw, etc. | | |



WARNING: Do not allow foreign towers within company right-of-way. **RESTRICT** placement of foreign towers a minimum distance equal to the height of the structure (plus the length of wind turbine blades measured to the tip in the vertical position) from company right-of-way limits; consideration should be given to the distance of ice throw from wind turbine blades to company right-of-way limits and required

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elevations/offsets for aerial patrol.

3 **NOTIFY** the Patrol Pilot of the location of any new foreign tower.

7.4 Proposed Site Encroachment Investigation

Operations Personnel/Encroachments Group follow the procedure below to conduct a proposed site encroachment investigation.

| Step | Task |
|------|--|
| 1 | REQUEST technical drawings from the contractors, developers, landowners and others of the proposed work to be completed. |
| 2 | CONSULT Right-of-Way Representative or Encroachments Group to REVIEW technical drawings prior to proposed work. |
| 3 | VERIFY company pipeline facilities are accurately identified in the technical drawings. |
| 4 | CONDUCT a site encroachment investigation with the contractors, developers, landowners and others of the proposed site as far in advance as practical. |
| 5 | CONFIRM excavation methods will be completed per SOP <u>I.10 Excavation</u> and <u>Backfill</u> if company pipeline facilities will be excavated by a third party excavator and/or landowner. |



WARNING: Stop any excavation work if it could cause damage, affect the safety and/or integrity of company pipeline facilities, is prohibited by the easement or is a violation of company rights. The on-site company representative has authority to contact local law enforcement to protect the company pipeline facilities when necessary.

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NOTE: Prevent foreign easements from encroaching into company right-of-way when proposed foreign construction will be parallel to and outside of company right-of-way.

| Step | Activity |
|------|---|
| 6 | PROVIDE a copy of Appendix B: <i>Engineering and Construction Guidelines</i> to the contractors, developers, landowners and others. |
| 7 | REQUEST any foreign line crossing to cross under company pipeline facilities with adequate clearance. VERIFY there is enough clearance not to interfere with future company maintenance or construction. |
| 8 | VERIFY construction activity does not commence until all information is exchanged between the parties, company pipeline facilities are field located and staked per SOP <u>B.04 Pipe Location and Marking</u> , foreign facilities are accurately marked and the company gives proper authorization. |
| 9 | VERIFY a company representative will be on-site any time work is performed within company right-of-way. |



WARNING: Notify the contractors, developers, landowners and others a One-Call or 811 notification must be submitted before any work begins.

| Steps | Activity | | |
|-------|--|--|--|
| 10 | The Right-of-Way Representative/Encroachments Group will DOCUMENT all | | |
| | pertinent drawings and agreements in the applicable tract file. | | |

7.5 Foreign Line Crossing Operations Personnel/Encroachments Group follow the procedure below regarding the types of foreign line crossing methods possible within company right-of-way.

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Methods



CAUTION: Additional precautions pertaining to specific foreign line crossing methods to avoid possible problems and/or hazards are listed in the following subsections. It is not the intent of this SOP to list all possible types of foreign line crossing methods affecting company right-of-way/pipeline facilities. Consult the company Right-of-Way Representative, Pipeline Specialist, Encroachments Group and Operations Manager regarding any construction crossing methods not included in this SOP.

| Step | Activity | | | | |
|------|---|--|--|--|--|
| 1 | REVIEW the affected company pipeline facilities attributes including but no limited to: | | | | |
| | Diameter, wall thickness, grade | | | | |
| | Vintage, seam and weld type | | | | |
| | Established maximum allowable operatring pressure | | | | |
| | Class and/or HCA | | | | |
| | Existing anomalies | | | | |
| 2 | PROVIDE a company representative to field locate and stake company | | | | |
| | pipeline facilities per SOP <u>B.04 Pipe Location and Marking.</u> | | | | |
| 3 | DETERMINE the depth of each company pipeline facility within the work area at appropriate intervals. VERIFY depth by probing. | | | | |
| 4 | REINFORCE couplings and acetylene welds where required prior to | | | | |
| | construction of foreign lines. Reference SOP <u>I.15 Coupled Pipeline and</u> <u>Acetylene Weld Reinforcement.</u> | | | | |
| 5 | MEET with the contractors, developers, landowners and others on site and | | | | |
| | review each party's responsibilities. | | | | |
| 6 | COMPLETE the applicable form(s) for <i>B.13.B Foreign Line Crossing</i> . | | | | |

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| Step | Activity |
|------|---|
| 7 | DOCUMENT in the applicable electronic database, as required. |

7.5.1 Open Cut

Operations Personnel/Encroachments Group follow the procedure below regarding foreign lines crossings conducted by open cut construction

| Step | Activity | |
|------|---|--|
| 1 | REQUIRE a minimum 24 inches of clearance below company pipeline facilities the entire width of company right-of-way. VERIFY there is enough clearance not to interfere with future company maintenance or construction. | |
| 2 | REQUEST an excavation plan identifying the width, depth and slope dimensions of the proposed crossing of company pipeline facilities. | |



NOTE: The excavation plan should include compaction specifications of how fill will be compacted under and around company pipeline facilities to prevent possible settling.

| Step | Activity |
|------|---|
| 3 | VERIFY open cut construction is conducted in a good and workmanlike manner, in conformity with all applicable engineering design standards, safety and other specifications. |



CAUTION: Without approval, no more than one company pipeline is to be exposed and/or unsupported at one time and no more than 20 feet of company pipeline shall be unsupported at any given time. Engineering stress calculations must be performed and approved prior to allowing more than 20 feet of unsupported pipe.

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| Step | Activity |
|------|---|
| 4 | VERIFY protective measures requested by the company, in order to avoid any damage to company pipeline facilities during foreign open cut construction, are provided. |

7.5.2 Auger Bore (Dry)

Operations Personnel/Encroachments Group follow the procedure below regarding foreign line crossings conducted by auger bore (dry) construction.

| Step | Activity | | | |
|------|--|--|--|--|
| 1 | REQUIRE a minimum 36 inches of clearance below company pipeline | | | |
| | facilities the entire width of company right-of-way. VERIFY there is enough | | | |
| | clearance not to interfere with future company maintenance or construction. | | | |
| 2 | OBTAIN an auger bore plan identifying offset distances and bore pit | | | |
| | locations including extents (e.g., width, depth and slope dimensions) within | | | |
| | company right-of-way. | | | |
| 3 | REINFORCE couplings and acetylene welds where required prior to | | | |
| | construction of foreign lines. Reference SOP I.15 Coupled Pipeline and | | | |
| | Acetylene Weld Reinforcement. | | | |
| 4 | EXCAVATE company pipeline facilities at the point of the proposed crossing | | | |
| | on the approach side to verify the auger head, boring and installation | | | |
| | process will not damage company pipeline facilities. | | | |
| | | | | |



NOTE: These excavations are called potholes and must be deep enough to monitor the bottom of the company pipeline facilities being crossed.

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| Step | Activity |
|------|---|
| 5 | VERIFY auger boring is conducted in a good and workmanlike manner, in conformity with all applicable engineering design standard, safety and other specifications. |



CAUTION: Without approval no more than one company pipeline is to be exposed and/or unsupported at one time and no more than 20 feet of company pipeline shall be unsupported at any given time. Engineering stress calculations must be performed and approved prior to allowing more than 20 feet of unsupported pipe.

| Step | Activity |
|------|---|
| 6 | VERIFY protective measures requested by the company, in order to avoid any damage to company pipeline facilities during foreign auger boring construction, are provided. |

7.5.3 Directionally Drilled

Operations Personnel/Encroachments Group follows the procedure below regarding foreign lines crossings conducted by directionally drilled construction

| Step | Activity |
|------|--|
| 1 | REQUIRE a minimum 36 inches of clearance below company pipeline facilities the entire width of company right-of-way. For large diameter (12 inches or greater) foreign line crossings, REQUIRE a minimum of 60 inches of clearance below company pipeline facilities the entire width of company right-of-way. VERIFY there is enough clearance not to interfere with future company maintenance or construction. |
| 2 | OBTAIN a directional drill plan identifying offset distances, drill profile, equipment staging and bore pit locations including extents (e.g., width, |

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| Step | Activity |
|------|--|
| | depth and slope dimensions) within company right-of-way. |
| 3 | VERIFY the clearances between the drill and company pipeline facilities account for the size of the back reamer and straightening of drill rods. |
| 4 | REQUIRE drill equipment to incorporate a mechanism for real time positioning and controlling bit to ensure the required clearance is maintained throughout the drill process. |
| 5 | DETERMINE if the boring contractor maintains returns. |



CAUTION: Returns are the bentonite-containing drilling fluids usually brought back to the drilling machine and recycled. If fluids are not returned or recycled it is possible they could be lost into the earth creating a cavity or other unstable foundation underneath company pipeline facilities. This would be evident by a noticeable increase in the amount of drilling fluids being used.

| Step | Activity |
|------|---|
| 6 | VERIFY drill machine anchorage and deadman locations do not interfere with the safe operation of company pipeline facilities. |
| 7 | EXCAVATE company pipeline facilities at the point of the proposed drill on the approach side to verify the drilling and pulling process will not damage company pipeline facilities. |



NOTE: These excavations are called potholes and must be deep enough to monitor the bottom of the company pipeline facilities being crossed.



NOTE: If it is not practical to expose company pipeline facilities **CONTACT** the Operations Manager. **DETERMINE** alternatives to ensuring company pipeline facilities are not damaged by the drilling and pulling process. Alternatives include but are not limited to: Requiring a minimum 15-foot separation between company pipeline facilities across the entire width of company right-of-way or altering the point of

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crossing so company pipeline facilities can be exposed.

| Step | Activity |
|------|---|
| 8 | VERIFY directional drill boring is conducted in a good and workmanlike manner, in conformity with all applicable engineering design standards, safety and other specifications. |
| 9 | VERIFY protective measures requested by the company, in order to avoid any damage to company pipeline facilities during foreign directional drilling construction, are provided. |
| 10 | MONITOR the boring equipment to verify it is calibrated and gives actual depth and pitch readings. |



NOTE:

- On some machines this can be accomplished beforehand by placing the drilling head on the ground and moving the locator a known distance away i.e. 10 feet.
- The measurements should be within a few inches.
- Perform a recalibration whenever batteries are replaced.
- If the locator cannot be calibrated within inches then excavate company pipeline facilities at the point of the crossing to verify no damage has occurred.

7.6 Investigation of Unknown Encroachments in Progress Follow the procedure below when Operations Personnel discover or are notified of an unknown encroachment/activity currently in progress within company right-of-way.

| Step | Activity |
|------|----------|
| | |

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| Step | Activity |
|------|---|
| 1 | IDENTIFY the type of work and its potential to damage company pipeline facilities or violate company rights. |
| 2 | ADVISE encroaching party of the nature of the product in the company pipeline facilities and the potential hazards. |



WARNING: Stop any work if it could cause damage, affect the safety and/or integrity of company pipeline facilities, is prohibited by the easement or is a violation of company rights. The on-site company representative has authority to contact local law enforcement to protect the company pipeline facilities when necessary.

| Step | Activity |
|------|--|
| 3 | REFER to SOP <u>I.30 Mechanical Damage</u> for reporting the unknown encroachment activity to the One Call Group for violation reporting. |
| 4 | CONTACT the Right-of-Way Representative/Encroachments Group and Director of Operations if the third party excavator or landowner performing the work does not agree to stop immediately and discontinue until a resolution is determined. CONSIDER delivery of a cease and desist letter to third party excavator or landowner. Refer to section 7.7 Legal Action below. |



NOTE: If foreign equipment is found unattended on company right-of-way, leave written notice and follow up as soon as possible to identify the excavator and/or landowner.

| Step | Activity |
|------|---|
| 5 | VERIFY company pipeline facilities are accurately located and marked per SOP <u>B.04 Pipe Location and Marking</u> . |
| 6 | REMAIN at the work site while construction is in progress to prevent damage |

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| | to company pipeline facilities. |
|------|--|
| 7 | EXCAVATE company pipeline facilities and complete an inspection if facilities are thought to have been damaged. |
| Step | Activity |
| 8 | KEEP a written record with all pertinent information concerning the sequence of events including but not limited to dates, names, telephone numbers, action taken (locating and staking lines, etc.) and discussions with all parties involved. |
| 9 | PROVIDE information to the Damage Prevention Department for reporting to appropriate Regulatory Agency(s) of known damages to company pipeline facilities within 5 days per <i>SOP I.30 Mechanical Damage</i> . |



CAUTION: When an excavator and/or landowner has performed work on company right-of-way without making appropriate notifications prior to commencing work:

- SEND a letter to the excavator and/or landowner advising them of company crossing requirements and the dangers of working around buried facilities without notice to the owner.
- **SEND** copies of the letter to the appropriate state One-Call or 811 system operator and Area Operations.
- REFER to <u>1.40 Public Awareness Plan</u> Communication with API RP1162 defined Stakeholders.

7.7 Legal Action

If any foreign encroachments/activities, known or unknown, persist once notified, with the potential to damage company pipeline facilities or violate the rights of the company, follow the procedure below to take legal action, when necessary.

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7.7.1 Contacting a Local Attorney

The company Right-of-Way Representative/Encroachments Group follow the procedure below to contact a local attorney.

| Step | Activity |
|------|---|
| 1 | DISCUSS the situation with company Legal Department to determine if and when it will be necessary to contact a local attorney to represent the company. |
| 2 | INSTRUCT the local attorney to make contact with the third party excavator and/or landowner and provide any correspondences to the company Right-of-Way Representative/Encroachments Group and Director of Operations. |
| 3 | DOCUMENT correspondence, written records, field notes (on staking, marking, and flagging company facilities) and photographs (identified with dates, etc.) in the applicable tract file. |

7.7.2 Verifying Stoppage of Encroachment Activities

The Right of Way Representative/Encroachments performs the following procedure below to verify the stoppage of encroachment activities.

| Step | Activity |
|------|--|
| 1 | CONTACT the company field representative on-site when company legal representation and/or the Right-of-Way Representative/Encroachments Group has requested stoppage of encroachments/activities to determine the work has stopped. |
| 2 | DETERMINE additional actions if needed. |

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WARNING: When necessary request the company Legal Department and/or local attorney to file for an injunction to stop encroachment activities in progress.

8.0 Documentation Requirements

Record data in electronic database or utilize the following form(s) as applicable:

- Pipeline Inspection Database
- B.13.A Encroachment
- B.13.B Foreign Line Crossing

9.0 References

A.01 Glossary and Acronyms

A.22 DOT Record Keeping

B.04 Pipe Location and Marking

D.35 Buried Pipe Inspections

I.10 Excavation and Backfill

I.15 Coupled Pipeline and Acetylene Weld Reinforcement

1.23 Protection of Pipeline Facilities from Blasting Operations

I.26 Mining Subsidence and Soil Slippage

1.27 Determination of Abnormal Loading

1.30 Mechanical Damage

I.31 One-Call System and Field Response

<u>I.40 Public Awareness Plan – Communication with API RP1162-defined Stakeholders</u>

BP 1.36 Pipeline Road and Rail Crossings

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Appendix A: OQ Task Requirements The table below identifies Operator Qualification (OQ) task requirements.

| Task Description | OQ Task |
|--|---------|
| Visual Inspection of Buried Pipe and Components When Exposed | PLOQ401 |
| Backfilling – Pipe and Coating Protection | PLOQ404 |
| Underground Pipeline – Locate and Temporarily Mark | PLOQ605 |
| Damage Prevention During Excavation/Encroachment Activities | PLOQ607 |

Appendix B: Engineering / Construction Guidelines The table below identifies Operator Qualification (OQ) task requirements.



NOTE: It is the intent of this appendix to be an editable document to facilitate engineering/construction guidelines regarding specific encroachments/activities within or near company right-of-way. Editing and distribution of this appendix shall be limited to a Pipeline Specialist/Engineer, Right-of-Way Representative and/or Encroachment Project Manager.

1. Contractors, developers, landowners and others, prior to any installation, construction, excavation or demolition activities on or near company right-of-way, shall make notifications to appropriate ONE CALL or 811 centers. A company representative must be on-site during any encroachment/activity within company right-of-way. The company representative on-site will have the authority to stop work by contractors, developers, landowners or others if the encroachment/activity is determined to be unsafe. The company representative will be invited to participate in all construction safety meeting(s).

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- 2. A minimum of 36 inches of cover is to be maintained over below ground company pipeline facilities across the entire company right-of-way.
- 3. No structure, construct or venue of any kind, including but not limited to any air strip, athletic field, berm/terrace, building, campground, cemetary, chattel, dam/dike, drain, earthwork, garage, georthermal system, house/mobile home, lake/pond/reservoir, landfill, logging operation, material storage, mine/quarry, poles/signage, septic system, soil boring, swimming pool, tower, vehicle parking/equipment parking, wells, wetland or other improvments including any facility causing the permanent or temporary retention of water, shall be permitted, placed or erected within, above or below company right-of-way including all associated appurtenances, foundations, guys/anchors, junction boxes or supports.
- 4. Where consent for fencing has been granted, the owner must install and maintain a vehicle access gate (at least 12 feet in width) or walkovers where required.
 - > Shall cross at or near right angles
 - > No fence post excavations shall be directly over company pipeline facilities
 - > Fence posts shall be placed with adequate spacing from company pipeline facilities.
 - Chain link, hurricane wire, stone, brick, concrete, privacy, decorative, or similar style fences or barriers are prohibited within company right-of-way.
 - If a gate is locked, the owner shall provide the company with a key or allow a company lock to be installed in series, to enable access.
- 5. Planting of trees, bushes, shrubs, vines and/or any other landscape planting within company right-of-way is prohibited. Vegetation shall not obstruct company patrol/inspection or identification markers.
- 6. Where consent for sidewalks, paths or trails have been granted, the width shall not exceed 48 inches and shall cross at or near right angles to company right-of-way.
- 7. Open ditches or waterways where consent has been granted must cross company right-of-way at or near right angles with at least 48 inches of cover remaining at the lowest point of the ditch or waterway.

Volume I – PIPELINE

Right-of-Way Encroachments/Activities

| Code Reference: | Procedure No.: I.28 | |
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| | 11/01/18 | |

- 8. Contractors, developers, landowners and others shall provide and install temporary construction fencing along company right-of-way to protect company pipeline facilities. The fencing must be maintained for the duration of the encroachment activities. Barriers adequate to prevent vehicular damage to any excavated and exposed company pipeline facilities shall be installed and maintained at all times.
- 9. For temporary vehicle and/or construction equipment crossing company pipeline facilities, each crossing location will be reviewed on a site specific basis, which will include a wheel/track load calculation to be completed and approved on every vehicle and/or construction equipment crossing company pipeline facilities.
 - Crossings shall be at or near right angles.
 - A minimum 36 inches cover is required.
 - Air bridging, matting or other suitable material may be required to be installed to achieve the necessary support for each crossing.
 - Crossing supports shall span a minimum of 10 feet either side of company pipeline facilities.
- 10. Excavation equipment shall be equipped with a barred tooth bucket and side cutters removed when digging or excavating within company right-of-way. All excavation within 18 inches of the top or 36 inches from the side or bottom of any company pipeline facility shall be completed by hand. After the top is exposed excavation up to 24 inches from the side or bottom of the exposed company pipeline facilities may proceed by mechanical means only if approved by a company representative.
- 11. No foreign line, appurtenance, structure or related fittings are to be constructed parallel to and/or allowed within company right-of-way. Foreign easements are prohibited from encroaching into company right-of-way when proposed foreign construction is parallel to and outside of company right-of-way.
- 12. For a new or modified road, railroad, or driveway crossing company pipeline facilities, each crossing location will be reviewed and approved on a site specific basis. The review will include, but not limited to, a wheel load calculation for superimposed loading due to traffic (DOT maximum axle load 20,000 lbs. per axle), imposed conditions caused by soil overburden and

Volume I - PIPELINE

Right-of-Way Encroachments/Activities

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determination of the need for alterations to company pipeline facilities to comply with Federal and State regulations.

- Crossings shall be at or near right angles.
- A minimum 36 inches of undisturbed or compacted soil shall be maintained from the bottom of the road or drive to the top of company pipeline facilities. Additional cover may be required as prescribed in individual state regulations i.e. Texas requires 48 inches of cover.
- Permanent air bridging requires drawings signed and approved by a Professional Engineer (P.E.) provided to the company.
- ➤ If a concrete pad is to be used as the method to minimize load, the crossing shall be built with load bearing footers spanning a minimum 10 feet either side of company pipeline facilities.
- 13. Open cut foreign line crossings, if approved, require a minimum 24 inches of separation below company pipeline facilities the entire width of company right-of-way. A compaction plan with a description of how fill will be compacted under company pipeline facilities to prevent settling will need to be reviewed and approved prior to the proposed crossing. Contractors, developers, landowners and others will be responsible for repairing any settling due to encroachment activities occurring on company right-of-way.
 - > Open cut crossings shall cross at or near right angles.
 - ➤ Communication Cables (Fiber Optic, Telephone, and TV) shall be placed in non-metallic conduit with bags of concrete mix placed directly above and below the conduit with warning burial tape installed 18 inches directly above the conduit across the entire width of company right-of-way.
 - All metallic foreign line crossings shall have insulation methods installed (e.g., Micarta board) where required between company pipeline facilities and the foreign line to prevent interference with cathodic protection.
 - > Sand and/or clean fill, free of rocks and debris, shall be installed around company pipeline facilities.
 - ➤ Where permissible foreign crossings should be clearly and permanently marked on each side of company right-of-way.
- 14. Auger bore (dry) foreign line crossings, if approved, require a minimum 36 inches of separation below company pipeline facilities the entire width of company right-of-way. Pothole excavations must be dug to observe the boring and pulling process does not damage company pipeline facilities and spacing is maintained.
 - Auger bore (dry) crossings shall cross at or near right angles.
 - An auger bore plan shall be provided for the proposed crossing showing the relationship of the auger hole to the bottom of company pipeline facilities and include bore pit locations.

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Right-of-Way Encroachments/Activities

| Code Reference: | Procedure No.: 1.28 | |
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| 49 CFR 192.935 (b) (iv) | Effective Date: | Page 38 of 40 |
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- Potholes shall be excavated on the approach side of the bore. The depth of the pothole shall be to a minimum 24 inches below the bottom of company pipeline facilities and in the direct path of the approaching auger to visually confirm it does not impact the pipeline.
- 15. Directionally drilled foreign line crossings, if approved, require a minimum 36 inches, 60 inches for large diameter foreign line crossings (12 inches diameter or greater), of separation below company pipeline facilities the entire width of company right-of-way. Pothole excavations must be dug to observe the drilling and pulling process does not damage company pipeline facilities. Boring equipment, if required, shall incorporate a mechanism for real time positioning and controlling bore bit/auger to ensure the required clearance is maintained throughout the boring process.
 - > Directionally drilled crossings shall cross at or near right angles.
 - A directional drill plan shall be provided for the proposed crossing showing the relationship of the bore hole to the bottom of company pipeline facilities.
 - ➤ Potholes shall be excavated on the approach side of the drill. The depth of the pothole shall be to a minimum 24 inches below the bottom of company pipeline facilities and in the direct path of the approaching drill tool to visually confirm it does not impact company pipeline facilities.
- 16. Temporary storage of spoils, material, equipment, or vehicles within company right-of-way, must be approved by Operations Manegement; at no time will storage be allowed directly over company pipeline facilities.
- 17. Equipment used in earthwork (e.g., excavation, contouring, precision leveling) must be approved on a site specific basis. This will include wheel/track load calculation to be completed on every vehicle and/or equipment crossing company pipeline facilities.
 - A minimum 36 inches of cover is required.
 - > Depth of cover should not exceed 7 feet.
- 18. Seismographic activity within 300 feet of company pipeline facilities without company approval is prohibited.
- 19. No roto-mixing or vibrating machinery is allowed within company right-of-way.
- 20. All pile driving operations 20 feet adjacent to company right-of-way will be required to pre-drill or auger all pilings to 36 inches below the bottom elevation of company pipeline facilities.

Volume I – PIPELINE

Right-of-Way Encroachments/Activities

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- 21. Foreign crossing excavations exposing company pipeline facilities shall be sloped and/or shored to allow a company representative the ability to inspect and make coating repairs where required.
- 22. No more than one company pipeline is to be exposed and/or unsupported at one time and no more than 20 feet of company pipeline shall be unsupported at any given time. Engineering stress calculations must be performed and approved prior to allowing more than 20 feet of unsupported pipe.
- 23. Cathodic protection test stations and line markers shall be protected from damage by encroachment activities.
- 24. Additional requirements for approved power lines energized to 600 volts or more shall include a minimum 36 inches of separation below company pipeline facilities the entire width of company right-of-way.
 - > Shall cross at or near right angles
 - > Be installed in rigid non-metallic conduit
 - For an open cut crossing method include
 - i. Bags of concrete-mix placed directly above and below the conduit the entire width of company right-of-way.
 - ii. Red burial tape placed 18 inches directly above the conduit.
 - ➤ Have external, spiral wound, neutrals grounded on each side of company right-of-way.
 - ➤ Where permissible the cable crossing should be clearly and permanently marked on each side of company right-of-way.
- 25. Power/Communication Lines (overhead) shall be constructed above the easement area with a minimum of twenty five feet (25') clearance to grade.
 - Power lines shall not be constructed over existing blow-offs or relief valves.
 - Power lines shall cross at or near right angles
 - Power line towers shall not straddle the company right-of-way
 - ➤ Power line tower footings shall not encroach within company right-of-way
- 26. Placement of wind turbine and communication towers (e.g., cell, radio, and microwave) must be placed a minimum distance of 1500 feet from company pipeline facilities.
- 27. Should modifications to company pipeline facilities be required, the company will be reimbursed for all costs, including overtime costs, incurred to complete any company pipeline facility

Volume I - PIPELINE

Standard Operating Procedures

Right-of-Way Encroachments/Activities

| Code Reference: | Procedure No.: 1.28 | | | | |
|-------------------------|---------------------|---------------|--|--|--|
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modification (e.g., coupling/weld reinforcement) including but not limited to: engineering, surveying, contract labor, materials, inspections, gas loss, administrative expenses and any other costs reasonably incurred directly or indirectly with respect to the work to be performed. Company lead times for competitively bidding, permitting and material procurement (estimated at 120 days) will commence only after the company receives a fully executed reimbursable agreement. Seasonal demands for natural gas can preclude the company from having outages of company pipeline facilities during any unscheduled timeframe in any given year.

28. Should any encroachment activity by the contractors, developers, landowners and others result in damage to any company pipeline facilities the total cost of the repairs will be the sole responsibility of the damaging party.



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 2213C CP 01744 POD1 **Q64 Q16 Q4 Sec Tws Rng** 3 2 3 17 21S 28E

X Y

3593764 🌑

Driller License: 1708

Driller Company:

ZIA DRILLING AND GEOTHERMAL, LLC

Driller Name: AINSWORTH, RYAN

Drill Start Date: 09/19/2018

Drill Finish Date:

09/20/2018

Plug Date:

01. a11 a...

Log File Date:

01/23/2019

PCW Rcv Date:

Source:

583476

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

20 GPM

Casing Size:

5.75

Depth Well:

90 feet

Depth Water:

82 feet

Water Bearing Stratifications:

Top Bottom Description

82

90 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

0 90

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.

8/10/21 9:03 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| z | OSE POD NO. (W CP 01744 PO | ELL NO | .) | | OSE FILE NO(S). CP 01744 POD 1 | | | | | | |
|------------------------------|---|--------------|--------------------------|----------------|--|--|----------------------------|---|---|---------------------------------------|--|
| OCATIO | WELL OWNER N ELLIPSE GL | | | | PHONE (OPTIONAL) | | | | | | |
| VELL LO | WELL OWNER N 1429 AVE D # | 141LING | ADDRESS | | CITY SNOHOMIS | SH | STATE WA 98290 | ZIP | | | |
| 1. GENERAL AND WELL LOCATION | | LO | ITTUDE NGITUDE | | 28 '10 18 6 06 41.85 38 AND COMMON LANDI | ONIDS 178 N 197 W MARKS - PLS | * DATUM REG | Y REQUIRED: ONE TENTH OF A SECOND EQUIRED: WGS 84 OWNSHIP, RANGE) WHERE AVAILABLE | | | |
| | LICENSE NO. | | NAME OF LICENSED | DRILLER RYA | N AINSOWRTH | | | NAME OF WELL DR | ILLING COMPANY IA DRILLING | | |
| | DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (F 9-19-18 9-20-18 90' 92' | | | | | | | | ST ENCOUNTERED (FT) 82' | | |
| | COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED) | | | | | | | STATIC WATER LEV | VEL IN COMPLETED WE 82' | ELL (FT) | |
| TIO | DRILLING FLUII |); | AJR | √ MUD | ADDITIVES – SPI | ECIFY: | | | | | |
| RMA | DRILLING METH | IOD: | ROTARY | HAMMER | CABLE TOOL | 7 OTHE | R - SPECIFY: | MUD ROTARY | | | |
| CASING INFORMATION | DEPTH (fee | t bgl) TO | BORE HOLE DIAM (inches) | (include ea | MATERIAL AND/OR GRADE ch casing string, and actions of screen) | CASING CONNECTION TYPE | | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) | |
| & CA | 0 | -90- | TI" | 1 | VC SCH 40 | GLUE A | ling diameter) ND SCREW | 5.75" | .025 | .030 | |
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| ΑL | FROM | TO | BORE HOLE DIAM. (inches) | I . | I ANNULAR SEAL M. EL PACK SIZE-RANG | | | AMOUNT (cubic feet) | METHO PLACEM | | |
| FERL | 13 | 90 | 11" | | WASHED PEA GRA | VEL 1/4*** | | 1.8 YD | TREM | МІЕ | |
| 3. ANNULAR MATERIAL | | | | | | | | | | | |
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| non | OSE INTERNAL | USE | | | | | WR-20 | WELL RECORD & | & LOG (Version 06/30 |)/17) | |
| FOR FILE | NO. / F |) - I | 744 | | POD NO. | 1 | TRNN | | 209 | 7 | |

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| RIG | | | | | | | | | | |
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| F -1 | | | | ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL | | | | | | |
| ÜRI | CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: 9-25-18 | | | | | | | | | |
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| LUC | CATION M | LVIT | | 215.28E.17.323 WELL TAG ID NO. | المال | 2 | | PAGE | 2 OF 2 | |



New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: CP 00627 Subbasin: CP Cross Reference:

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: CLINTON C. WEST

Documents on File

| | | | | Sta | itus | | From/ | | | |
|------------|------|-------|------------|-----|------|-------------------|-------|-------|-----------|-------------|
| | Trn# | Doc | File/Act | 1 | 2 | Transaction Desc. | То | Acres | Diversion | Consumptive |
| ge imag | | 72121 | 2005-12-20 | EXP | EXP | CP 00627 | T | | 3 | |
| ge imag | | 72121 | 1982-01-04 | PMT | LOG | CP 00627 | T | | 3 | |
| ge imag | | 72121 | 1980-10-16 | EXP | EXP | CP 00627 | T | | 3 | |

Current Points of Diversion

(NAD83 UTM in meters)

| POD Number | Well Tag | Source | 64 (| Q16 | Q4 | Sec | Tws | Rng | X | Y | | Other Location Desc |
|----------------------|----------|---------|------|-----|----|-----|-----|-----|--------|----------|---|---------------------|
| <u>CP 00627</u> | | Shallow | | 2 | 3 | 17 | 21S | 28E | 583547 | 3593816* | 8 | |
| <u>CP 00627 POD2</u> | | | 1 | 2 | 3 | 17 | 21S | 28E | 583360 | 3593982 | Ø | |

An () after northing value indicates UTM location was derived from PLSS - see Help

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.

8/10/21 8:57 PM WATER RIGHT SUMMARY

Office of State Engir

00 AU:51 p.m. 12-15-2005 Fil

214

NEW MEXICO OFFICE OF THE STATE ENGINEER APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

| 2- | 20840 |
|----|-------|
| d | A5 |

| 1. APPLICANT | | | |
|---|-------------------------------------|---|----------------------|
| | PETREE T | Work Phone: | 432-683-7063 |
| Contact: SAMSON | RESOURCES & | Home Phone: | 432-661 6286 |
| Address: 200 NoR | Th LORIANE | | |
| City: midlan | | State: TX 21 | p: 79701 |
| A TOCHTON OF THE TALL | C - D THE | Lames a | |
| 2. LOCATION OF WELL (A, I A. <u>NW</u> 1/4 <u>NE</u> 1/4 in | SW1/4 Section: 17 | Township 21S Range | County. |
| B. X = Zone in t | feet, Y = | feet, N.M. Coord | dinate System Grant |
| U.S.G.S. Quad Mar | | | |
| C. Latitude: N32 | 28 m 42.8 s L | ongitude: <u>W104</u> d <u>06</u> | m 46.2s |
| D. East | m), North(| m), UTM Zone 13, NAD _ | _ (27 or 83) |
| E. Tract No, | Map No of the | Hydrog | raphic Survey |
| F. Lot No, B1 | ock No of Unit Subdivision recor | Tract Quahada H | CRES of the County. |
| | in a municipality? N | | 2005 |
| H. Give State Engine | er File Number if exi | sting well: $\mathcal{L}_{\mathcal{L}}$ | 627 |
| I. On land owned by | (required): Samso | N RESOURCES | £ 20 |
| | | | 0 |
| 3. USE OF WATER (check use a X One household, n | on-commercial trees, | lawn and garden not to | exceed a 😤 |
| total of one acr | e. | | ထု |
| Livestock wateri | ng. | | w 8 |
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| | se under item 5 of the | re marked, give the name e additional statements | |
| More than one ho exceed a total o | | al trees, lawns and gar | dens not to |
| Drinking and san trees, shrubs an commercial opera | d lawns not to exceed | e irrigation of non-com one acre in conjunction | mercial on with a |
| Prospecting, min natural resource | | tions to discover or de | evelop |
| Construction of | public works, highways | | |
| Trn Desc: | | File Number: _C | P-627 |
| og Due Date: | | Trn Number: | 48538 |
| Form: wr-01 | page 1 | of 4 | 1-3-1 |
| | | | 416 |

3/4 12-15-2005 2 p.m. Office of State Engin 505 623 8559 File Number: NEW MEXICO OFFICE OF THE STATE ENGINEER APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES 4. WELL INFORMATION (Change, Repair, Drill, Test, Supplement) Name of well driller and driller license number: Approximate depth 125 feet; Outside diameter of casing Z inches. X Change Location of existing well or replacement well Repair or Deepen: ___ Clean out well to original depth Deepen well from _____ to ____ feet
Other Drill and test a well for _ ___ Supplemental well 5. ADDITIONAL STATEMENTS OR EXPLANATIONS: 4" PUC CASING DAMAGED MOUE WELL APPROX 100'SE ACKNOWLEDGEMENT KRTREE affirm that the (Please Print) are true to the best of (my, our) knowledge and belief. foregoing statements

> File Number: 4/853 Trn Desc: Log Due Date: Trn Number: page 2 of 4 Form: wr-01

Applicant Signature

Applicant Signature

NEW MEXICO STATE ENGINEER OFFICE APPLICATION FOR PERMIT TO USE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 72-12-1 NEW MEXICO STATUTES

GENERAL CONDITIONS OF APPROVAL (A thru I)

- A The maximum amount of water that may be appropriated under this permit is 3.000 acre-feet in any year.
- The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 72-12-12).
- C Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- D The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall notify the State Engineer Office in writing.
- In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3.000 acre-feet in any year.
- G If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.
- H The amount and uses of water permitted under this Application are subject to such limitations as may be imposed by the courts or by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

Trn Desc: CP 00627

Log Due Date: 12/31/2006

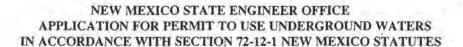
Form: wr-01

page: 1

File Number: CP 00627

Trn Number: 348538

475176



GENERAL CONDITIONS OF APPROVAL (Continued)

The permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

SPECIFIC CONDITIONS OF APPROVAL

- 4 Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- This permit is for a single household. The total diversion of water under this permit shall not exceed 3.000 acre-feet per year. Permit will be subject to cancellation if the conditions of approval are not met or if the actions of the permittee are not in accordance with the permit.
- LOG This permit will automatically expire unless the well CP 00627 POD2 is completed and the well record filed on or before 12/31/2006.

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific conditions listed above.

Witness my hard and seal this 20 day of Dec A.D., 2005

John R. D Antonio, Jr., P.E., State Engineer

By: Margaret Wolf

The well shall be set back a minimum of fifty (50) feet from an existing well of other ownership, unless a variance has been granted by the State Engineer.

The replaced well shall be plugged and the well driller shall file a complete plugging record with the State Engineer's Office and permit holder no later than 20 days after completion of plugging.

Trn Desc: CP 00627

Log Due Date: 12/31/2006

Form: wr-01

page: 2

File Number: CP 00627

Trn Number: 348538

476176



John R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

Trn Nbr: 348538 File Nbr: CP 00627

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

December 20, 2005

SAMSON RESOURCES c/o GERRY PETREE 200 NORTH LORIANE SUITE 1010 MIDLAND, TX 79701

Greetings:

Enclosed is your copy of the 72-12-1 Permit which has been approved. Your attention is called to the Specific and the General Conditions of Approval of this permit.

In accordance with General Condition C, a well record shall be filed in this office within ten (10) days after completion of drilling. The well record is proof of completion of the well. IT IS YOUR RESPONSIBILITY TO ASSURE THAT THE WELL LOG BE FILED WITHIN 10 DAYS OF DRILLING THE WELL.

This permit will expire on or before 12/31/2006, unless the well has been drilled and the well log filed in this office.

Sincerely,

Margaret Wolf (505)622-6521

Enclosure

cc: Santa Fe Office

wr 01app



| PHOTOGRAPHIC LOG | | | | | | |
|------------------|-------------------------|-------------|--|--|--|--|
| XTO ENERGY, INC. | Big Eddy Unit 150 | TE012920126 | | | | |
| | Eddy County, New Mexico | | | | | |

 Photo No.
 Date

 1
 July 19, 2021

South view of the Site during excavation activities.



Photo No. Date

2 July 21, 2021

South view of the Site during excavation activities.





| PHOTOGRAPHIC LOG | | | | | | |
|------------------|-------------------------|-------------|--|--|--|--|
| XTO ENERGY, INC. | Big Eddy Unit 150 | TE012920126 | | | | |
| | Eddy County, New Mexico | | | | | |

Photo No. Date

3 July 26, 2021

View of the final excavation extent.



Photo No. Date
4 July 26, 2021

View of the final excavation extent.





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-964-1

Laboratory Sample Delivery Group: TE012920126

Client Project/Site: Big Eddy Unit 150

For:

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

Attn: Dan Moir

SURAMER

Authorized for release by: 7/23/2021 1:58:20 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/28/2022 4:36:12 PM

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

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

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<u>11</u>

13

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-964-1

SDG: TE012920126

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-964-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-964-1

SDG: TE012920126

Job ID: 890-964-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-964-1

Receipt

The sample was received on 7/21/2021 12:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SW05 (890-964-1)

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.

Matrix: Solid

Lab Sample ID: 890-964-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-964-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: SW05

Date Collected: 07/20/21 07:14 Date Received: 07/21/21 12:31

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------------------------|-------------------------------|---|----------------------------|----------|---|--|---|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 116 | | 70 - 130 | | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | 07/22/21 10:00 | 07/22/21 13:43 | 1 |
| Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | |
| | | | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | |
| Analyte Gasoline Range Organics | | Qualifier | RL | <mark>Unit</mark> mg/Kg | D | Prepared 07/22/21 08:46 | Analyzed 07/22/21 14:12 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result | Qualifier U | | | <u>D</u> | <u> </u> | | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | 07/22/21 08:46 | 07/22/21 14:12 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 <50.0 | Qualifier U U | 50.0 | mg/Kg | <u>D</u> | 07/22/21 08:46 07/22/21 08:46 | 07/22/21 14:12 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 <50.0 <50.0 | Qualifier U U U | 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 | 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 | 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH | Result | Qualifier U U U | 50.0 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 | 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 | 1 1 1 Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH | Result | Qualifier U U U | 50.0 50.0 50.0 50.0 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 <i>Prepared</i> | 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 Analyzed | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 Limits 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 Prepared 07/22/21 08:46 | 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 Analyzed 07/22/21 14:12 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 Limits 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 07/22/21 08:46 Prepared 07/22/21 08:46 | 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 07/22/21 14:12 Analyzed 07/22/21 14:12 | Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac |

Eurofins Xenco, Carlsbad

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Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-964-1

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|-------------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-964-1 | SW05 | 116 | 96 | |
| 890-964-1 MS | SW05 | 107 | 109 | |
| 890-964-1 MSD | SW05 | 107 | 108 | |
| LCS 880-5481/1-A | Lab Control Sample | 100 | 102 | |
| LCSD 880-5481/2-A | Lab Control Sample Dup | 102 | 105 | |
| MB 880-5481/5-A | Method Blank | 126 | 95 | |
| Surrogate Legend | | | | |
| BFB = 4-Bromofluorober | nzene (Surr) | | | |
| DFBZ = 1,4-Difluorobena | zene (Surr) | | | |

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

Matrix: Solid Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | |
|-------------------|------------------------|--|----------|--|--|--|--|--|
| | | 1CO1 | OTPH1 | | | | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | | | | | |
| 890-964-1 | SW05 | 101 | 111 | | | | | |
| LCS 880-5350/2-A | Lab Control Sample | 89 | 88 | | | | | |
| LCSD 880-5350/3-A | Lab Control Sample Dup | 96 | 96 | | | | | |
| MB 880-5350/1-A | Method Blank | 100 | 115 | | | | | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-964-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5481/5-A

Matrix: Solid

Analysis Batch: 5527

| Client Sample ID: Method Blank |
|--------------------------------|
|--------------------------------|

Prep Type: Total/NA

Prep Batch: 5481

| | MB N | MB | | | | | | |
|---------------------|------------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result (| Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 U | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | 1 |
| Toluene | <0.00200 l | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | |
| Ethylbenzene | <0.00200 l | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | |
| m-Xylene & p-Xylene | <0.00400 U | U | 0.00400 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | |
| o-Xylene | <0.00200 l | U | 0.00200 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | |
| Xylenes, Total | <0.00400 l | U | 0.00400 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | |
| Total BTEX | <0.00400 U | U | 0.00400 | mg/Kg | | 07/22/21 10:00 | 07/22/21 13:22 | |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | 70 - 130 | 07/22/21 10:00 | 07/22/21 13:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | 70 - 130 | 07/22/21 10:00 | 07/22/21 13:22 | 1 |

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 5527

Lab Sample ID: LCS 880-5481/1-A

Lab Sample ID: LCSD 880-5481/2-A

Prep Type: Total/NA

Prep Batch: 5481

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09320 | | mg/Kg | | 93 | 70 - 130 | |
| Toluene | 0.100 | 0.08476 | | mg/Kg | | 85 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08492 | | mg/Kg | | 85 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1734 | | mg/Kg | | 87 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08447 | | mg/Kg | | 84 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 102 | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5481

| The state of the s | | | | | | | | | |
|--|-------|---------|-----------|-------|---|------|----------|-----|-------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1016 | | mg/Kg | | 102 | 70 - 130 | 9 | 35 |
| Toluene | 0.100 | 0.09156 | | mg/Kg | | 92 | 70 - 130 | 8 | 35 |
| Ethylbenzene | 0.100 | 0.09037 | | mg/Kg | | 90 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1847 | | mg/Kg | | 92 | 70 - 130 | 6 | 35 |
| o-Xylene | 0.100 | 0.09124 | | mg/Kg | | 91 | 70 - 130 | 8 | 35 |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 105 | 70 - 130 |

Lab Sample ID: 890-964-1 MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 5527

Analysis Batch: 5527

| Client Sample ID: SW05 | | | |
|------------------------|-------|-------|---------------|
| Prep Type: Total/NA | | | |
| Prep Batch: 5481 | | | |
| %Rec. | MS MS | Snike | Sample Sample |

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|---------|----------|-----------|--------|---------|-----------|-------|---|------|----------|------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00200 | U | 0.0990 | 0.09053 | | mg/Kg | | 91 | 70 - 130 | |

EuroRns Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-964-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

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

Lab Sample ID: 890-964-1 MS **Matrix: Solid**

Analysis Batch: 5527

| Client Sample ID: SW05 |
|------------------------|
| Prep Type: Total/NA |

Prep Batch: 5481

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Toluene <0.00200 U 0.0990 0.08163 82 70 - 130 mg/Kg Ethylbenzene <0.00200 U 0.0990 0.07729 mg/Kg 78 70 - 130 0.198 m-Xylene & p-Xylene <0.00401 U 0.1583 80 70 - 130 mg/Kg o-Xylene <0.00200 U 0.0990 0.07972 mg/Kg 81 70 - 130

MS MS

Sample Sample

Result Qualifier

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 |

Client Comple ID: CWOE Lab Sample ID: 890-964-1 MSD

Spike

Added

Matrix: Solid

Analyte

Analysis Batch: 5527

| Client Sample | ID: 20002 |
|---------------|------------|
| Prep Type | : Total/NA |
| | |

Prep Batch: 5481

RPD %Rec. Limit %Rec Limits **RPD** 5 35 70 - 130 70 - 130 35 3

Benzene <0.00200 0.101 0.09563 95 mg/Kg Toluene <0.00200 0.101 0.08383 83 U mg/Kg Ethylbenzene <0.00200 U 0.101 0.08119 70 - 130 mg/Kg 81 5 35 m-Xylene & p-Xylene <0.00401 U 0.202 0.1653 82 70 - 130 35 mg/Kg o-Xylene <0.00200 U 0.101 0.08252 mg/Kg 82 70 - 130

MSD MSD

Qualifier

Unit

Result

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 107 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | 70 - 130 |

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

Lab Sample ID: MB 880-5350/1-A

Matrix: Solid

Analysis Batch: 5510

| Client | Samp | le ID: | Method | Blank |
|--------|--------|--------|----------|--------|
| Olicit | Ourilp | IC ID. | Mictiloa | Dialik |

Prep Type: Total/NA

Prep Batch: 5350

| | MB | MR | | | | | | |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Oange (rganics | <50.0 | U | 50.0 | mg/Kg | | 07/19/21 08:46 | 07/22/21 12:07 | 1 |
| Diesel Oange (rganics)(Her C10-C28v | <50.0 | U | 50.0 | mg/Kg | | 07/19/21 08:46 | 07/22/21 12:07 | 1 |
| (II Oange (rganics)(Her C28-C36v | <50.0 | U | 50.0 | mg/Kg | | 07/19/21 08:46 | 07/22/21 12:07 | 1 |
| Total TPf | <50.0 | U | 50.0 | mg/Kg | | 07/19/21 08:46 | 07/22/21 12:07 | 1 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100 | | 70 - 130 | 07/19/21 08:46 | 07/22/21 12:07 | 1 |
| o-Terphenyl | 115 | | 70 - 130 | 07/19/21 08:46 | 07/22/21 12:07 | 1 |

Lab Sample ID: LCS 880-5350/2-A

Matrix: Solid

Analysis Batch: 5510

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5350

| | Spike | LCS | LCS | | | | %Rec. | |
|--------------------------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Oange (rganics | 1000 | 762.1 | | mg/Kg | | 76 | 70 - 130 | |

)GO(v-C6-C10

EuroRns Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-964-1 SDG: TE012920126 Project/Site: Big Eddy Unit 150

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

| Lab Sample ID: LCS 880-5350/2-A | | | Client Sample ID: Lab Control Sample |
|---------------------------------|-------|---------|--------------------------------------|
| Matrix: Solid | | | Prep Type: Total/NA |
| Analysis Batch: 5510 | | | Prep Batch: 5350 |
| | Spike | LCS LCS | %Rec. |

| | Орікс | 200 | 200 | | | /01100. | |
|-------------------------------|-------|--------|----------------|---|------|----------|--|
| Analyte | Added | Result | Qualifier Unit | D | %Rec | Limits | |
| Diesel Oange (rganics)(Her | 1000 | 881.8 | mg/l | | 88 | 70 - 130 | |
| C10-C28v | | | | | | | |

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 89 | | 70 - 130 |
| o-Terphenyl | 88 | | 70 - 130 |

Lab Sample ID: LCSD 880-5350/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5510** Prep Batch: 5350

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-------------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Oange (rganics | 1000 | 808.2 | | mg/Kg | | 81 | 70 - 130 | 6 | 20 |
|)GO(v-C6-C10 | | | | | | | | | |
| Diesel Oange (rganics)(Her | 1000 | 949.4 | | mg/Kg | | 95 | 70 - 130 | 7 | 20 |
| C10-C28v | | | | | | | | | |

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

мв мв

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5537/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5560

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 07/23/21 03:45

Lab Sample ID: LCS 880-5537/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5560

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

Lab Sample ID: LCSD 880-5537/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5560

| | Spike | LCSD | LCSD | | | %Rec. | | RPD |
|----------|-------|--------|----------------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 250 | 249.9 | mg/Kg | | 100 | 90 - 110 | 0 | 20 |

EuroRns Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc. Job ID: 890-964-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

GC VOA

Prep Batch: 5481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-964-1 | SW05 | Total/NA | Solid | 5035 | |
| MB 880-5481/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5481/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5481/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-964-1 MS | SW05 | Total/NA | Solid | 5035 | |
| 890-964-1 MSD | SW05 | Total/NA | Solid | 5035 | |

Analysis Batch: 5527

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-964-1 | SW05 | Total/NA | Solid | 8021B | 5481 |
| MB 880-5481/5-A | Method Blank | Total/NA | Solid | 8021B | 5481 |
| LCS 880-5481/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5481 |
| LCSD 880-5481/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5481 |
| 890-964-1 MS | SW05 | Total/NA | Solid | 8021B | 5481 |
| 890-964-1 MSD | SW05 | Total/NA | Solid | 8021B | 5481 |

GC Semi VOA

Prep Batch: 5350

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-964-1 | SW05 | Total/NA | Solid | 8015NM Prep | |
| MB 880-5350/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5350/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5350/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5510

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-964-1 | SW05 | Total/NA | Solid | 8015B NM | 5350 |
| MB 880-5350/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5350 |
| LCS 880-5350/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5350 |
| LCSD 880-5350/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5350 |

HPLC/IC

Leach Batch: 5537

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-964-1 | SW05 | Soluble | Solid | DI Leach | |
| MB 880-5537/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5537/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5537/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 5560

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-964-1 | SW05 | Soluble | Solid | 300.0 | 5537 |
| MB 880-5537/1-A | Method Blank | Soluble | Solid | 300.0 | 5537 |
| LCS 880-5537/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5537 |
| LCSD 880-5537/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5537 |

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-964-1

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Client Sample ID: SW05

Lab Sample ID: 890-964-1

Matrix: Solid

Date Collected: 07/20/21 07:14 Date Received: 07/21/21 12:31

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5481 | 07/22/21 10:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5527 | 07/22/21 13:43 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 5350 | 07/22/21 08:46 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 5510 | 07/22/21 14:12 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5537 | 07/22/21 12:08 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 5560 | 07/23/21 06:00 | CH | XEN MID |

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-964-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Laboratory: Eurofins Xenco, Midland

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

| Authority | F | Program | Identification Number | Expiration Date |
|---|-------------|----------------------------------|--|------------------------------|
| Texas | N | NELAP | T104704400-20-21 | 06-30-22 |
| The following analytes the agency does not of | | out the laboratory is not certif | ied by the governing authority. This list ma | y include analytes for which |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 8015B NM | 8015NM Prep | Solid | Total TPH | |
| 8021B | 5035 | Solid | Total BTEX | |

Method Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-964-1

SDG: TE012920126

| ocol | Laboratory |
|------|------------|
| 346 | XEN MID |
| 346 | XEN MID |
| WW | XEN MID |

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Page 13 of 17 Released to Imaging: 2/28/2022 4:36:12 PM

Sample Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-964-1

SDG: TE012920126

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-964-1 | SW05 | Solid | 07/20/21 07:14 | 07/21/21 12:31 | 0 - 4 |

Phone:

(432) 236-3849 Midland, TX 79705 3300 North A Street

Email: Jeremy.Hill@wsp.com, Dan.Moir@wsp.com

Big Eddy Unit 7E013930136

Routine

Turn Around Þ

ANALYSIS REQUEST

Deliverables: EDD

ADaPT

Work Order Notes

□_RP

U level IV

1 perfund

City, State ZIP:

Address: Company Name: Project Manager:

WSP USA Dan Moir

Project Number Project Name:

| City, State ZIP: Carlsbad, NM 88220 | Address: 522 W. Mermod St. | Company Name: XTO Energy | Bill to: (if different) Kyle Littrell | 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)794-1285 NM (575-392-7550) Phoenix, AZ (480-355-0900) Allanta, GA (770-449-8800) Tampa, FL (813-620-2000) | Chain of Custody |
|-------------------------------------|----------------------------|-----------------------------------|---------------------------------------|---|------------------|
| Reporting:Level III PT/UST RP | State of Project: | Program: UST/PST _RPPrownfieldsRC | Work Order Comments | nio,TX (210) 509-3334 lck,TX (806)794-1295 -8800) Tampa,FL (813-620-2000) www.xenco.com Page | Work Order No: |
| ¥T □RP | | ds [RC | mments | Page_ | |

| Revised Date 051418 Rev. 2018 1 | | | 0 | | | | | | 5 |
|--|---|---|---|--|--|---|---|--|--|
| | | | | 11.17.17.1 | | 4m | 1,0 | 1 | |
| Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Time | Date/Time | ignature) | Received by: (Signature | , | signature) | Relinquished by: (Signature) |
| | terms and conditions nces beyond the control lously negotiated. | NOTICE: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, Its affiliates and subcontractors. It assigns standard terms and conditions 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. | y to Xenco, Its affi enses incurred by nco, but not analy | client compan losses or exp ubmitted to Xe | valid purchase order from e any responsibility for any ge of \$5 for each sample s | samples constitutes a s and shall not assum ach project and a cha | quishment of cost of sample be applied to a | ment and reline only for the of \$75.00 will | NOTICE: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract 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 loss 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 |
| Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 Hg | Vi K Se Ag SiO2 | Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Ba Ba | P 2 | TCLP / SPLP 6010: 8RCRA | ∞ | 6020:) to be ana | 200.8 / 6020: and Metal(s) to be | Total 200,7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed |
| | | | | | | 2-1 | | | |
| | | | | | | | | | |
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| Composite | | | XX | ~ | 14 0-41 | 7/20/10/07/4 | 5 | | Soms |
| Sample Comments | Se | | BTEX (| Numb | ne Depth | Date Time Sampled Sampled | Matrix | cation | Sample Identification |
| lab, if received by 4:30pm | lab | | | | iners: | Total Containers: | NO NIA | Yes | Sample Custody Seals: |
| TAT starts the day recevied by the | TAT str | 890-964 Chain of Custody | 100 | | actor: - O . 2 | Correction Factor: | NA NA | 1_1 | Cooler Custody Seals: |
| | | | | | 1007 | - MW/ | No | (Yes) | Received Intact: |
| | | |) | ners | Thermometer ID | Thermo | 15.0 | 5-2 | Temperature (°C): |
| Em 9201.01360 | TIE. | | | | Wet Ice: (Yes) No | No No | Temp Blank: - Yes | | SAMPLE RECEIPT |
| 3 | 200 | | _ | _ | Due Date: 7/3//3 | = | Jeremy Hill | | Sampler's Name: |
| 1080141001 | 10% | | _ | | Rush: 34 kr | NRM 2024 884 885 | HEDE V | In NRO | P.O. Number: |
| | | | | | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-964-1 SDG Number: TE012920126

List Source: Eurofins Xenco, Carlsbad

Login Number: 964 List Number: 1 Creator: Clifton, Cloe

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

Eurofins Xenco, Carlsbad

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-964-1 SDG Number: TE012920126

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 07/22/21 10:10 AM

Creator: Phillips, Kerianna

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-965-1

Client Project/Site: Big Eddy Unit 150

For:

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

Attn: Dan Moir

JURAMER

Authorized for release by: 7/23/2021 2:00:35 PM

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

.....LINKS

Review your project results through

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Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 2/28/2022 4:36:12 PM

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Page 3 of 20

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Case Narrative

Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

Job ID: 890-965-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-965-1

Receipt

The samples were received on 7/21/2021 12:29 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 5.0° C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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Eurofins Xenco, Carlsbad 7/23/2021

Matrix: Solid

Lab Sample ID: 890-965-1

62@3@1 14/64

62@3@1 14/77

Matrix: Solid

62@3@1 16/66

62@3@1 6c/4t

Client Sample Results

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

Client Sample ID: FS06

Date Collected: 07/20/21 07:40 Date Received: 07/21/21 12:29

Sample Depth: - 4

1:4-9 5luorobenzene (Surr)

| Method: 8021B - Volatile Orga | nic Compounds (| GC) | | | | | | |
|-------------------------------|-----------------|-----------|----------|----------------|---|---|--|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| 2 engene | d0.00y0y | U | 0.00y0y | 5 r 🔁 r | | 0 <fyyfy1 10:00<="" td=""><td>0<fyyfy1 1m0m<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1m0m<="" td=""><td>1</td></fyyfy1> | 1 |
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| 5 -u Blene h X-u Blene | d0.00m0m | U | 0.00m0m | 5 r E r | | 0<БууБу1 10:00 | 0 <fyyfy1 1m0m<="" td=""><td>1</td></fyyfy1> | 1 |
| o-u Blene | d0.00y0y | U | 0.00y0y | 5 r ⊵ r | | 0 <fyyfy1 10:00<="" td=""><td>0<fyyfy1 1m0m<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1m0m<="" td=""><td>1</td></fyyfy1> | 1 |
| u Blene&pKotsI | d0.00m0m | U | 0.00m0m | 5 r E r | | 0<БууБу1 10:00 | 0 <fyyfy1 1m0m<="" td=""><td>1</td></fyyfy1> | 1 |
| Kotsl 2Kj u | d0.00m0m | U | 0.00m0m | 5 r E r | | 0<БууБу1 10:00 | 0 <fyyfy1 1m0m<="" th=""><th>1</th></fyyfy1> | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 26 - 176 | | | 62@3@1 16/66 | 62@3@1 14/64 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|---------------|----------------|---|--|---|---------|
| , s‾ a snr e RG snic& | dm9.9 | U | m9.9 | 5 r Ez r | | 0 <fyyfy1 08:m6<="" th=""><th>0<fyyfy1 1m))<="" th=""><th>1</th></fyyfy1></th></fyyfy1> | 0 <fyyfy1 1m))<="" th=""><th>1</th></fyyfy1> | 1 |
| Q a R(-C6-C10 | | | | | | | | |
| Die & a snr e R & snic & R ve G | dm9.9 | U | m9.9 | 5 r Ez r | | 0 <fyyfy108:m6< th=""><th>0<fyyfy11m))< th=""><th>1</th></fyyfy11m))<></th></fyyfy108:m6<> | 0 <fyyfy11m))< th=""><th>1</th></fyyfy11m))<> | 1 |
| C10-Cy8(| | | | | | | | |
| RII asnr e RG snic& RveCcy8-C) 6(| dm9.9 | U | m9.9 | 5 r E r | | 0 <eyyey1 08:m6<="" td=""><td>0<fyyfy1 1m))<="" td=""><td>1</td></fyyfy1></td></eyyey1> | 0 <fyyfy1 1m))<="" td=""><td>1</td></fyyfy1> | 1 |
| Kotsl KPH | dm9.9 | U | m 9 .9 | 5 r E r | | 0 <fyyfy1 08:m6<="" td=""><td>0<fyyfy1 1m))<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1m))<="" td=""><td>1</td></fyyfy1> | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Di loroo8@ne | , 3 | | 26 - 176 | | | 62@3@1 6c/4t | 62@3@1 14/77 | 1 |

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161

| Method: 300.0 - Anions, Ion Chrom | atography - | Soluble | | | | | | |
|-----------------------------------|-------------|-----------|------|----------------|---|----------|---|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 167 | | m9.9 | 5 r E r | | | 0 <fy) 06:06<="" fy1="" th=""><th>10</th></fy)> | 10 |

26 - 176

Client Sample ID: FS07 Lab Sample ID: 890-965-2

Date Collected: 07/20/21 07:43 Date Received: 07/21/21 12:29

Sample Depth: - 4

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| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--------------------|---|---|--|---------|
| 2 engene | d0.00y00 | U | 0.00y00 | 5 r 🔁 r | | 0 <fyyfy1 10:00<="" td=""><td>0<fyyfy1 1mym<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1mym<="" td=""><td>1</td></fyyfy1> | 1 |
| Kol7ene | d0.00y00 | U | 0.00y00 | 5 r E z r | | 0 <fyyfy1 10:00<="" td=""><td>0<БууБу1 1mym</td><td>1</td></fyyfy1> | 0<БууБу1 1mym | 1 |
| j t3Bbengene | d0.00y00 | U | 0.00y00 | 5 r E z r | | 0 <fyyfy1 10:00<="" td=""><td>0<eyyey1 1mym<="" td=""><td>1</td></eyyey1></td></fyyfy1> | 0 <eyyey1 1mym<="" td=""><td>1</td></eyyey1> | 1 |
| 5 -u Blene h X-u Blene | d0.00m00 | U | 0.00m00 | 5 r E z r | | 0<БууБу1 10:00 | 0 <fyyfy1 1mym<="" td=""><td>1</td></fyyfy1> | 1 |
| o-u Blene | d0.00y00 | U | 0.00y00 | 5 r E z r | | 0 <fyyfy1 10:00<="" td=""><td>0<eyyey1 1mym<="" td=""><td>1</td></eyyey1></td></fyyfy1> | 0 <eyyey1 1mym<="" td=""><td>1</td></eyyey1> | 1 |
| u Blene&pKotsI | d0.00m00 | U | 0.00m00 | 5 r E z r | | 0 <fyyfy1 10:00<="" td=""><td>0<eyyey1 1mym<="" td=""><td>1</td></eyyey1></td></fyyfy1> | 0 <eyyey1 1mym<="" td=""><td>1</td></eyyey1> | 1 |
| Kotsl 2Kj u | d0.00m00 | U | 0.00m00 | 5 r E r | | 0<БууБу1 10:00 | 0 <fyyfy1 1mym<="" td=""><td>1</td></fyyfy1> | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 16t | | 26 - 176 | | | 62@3@1 16/66 | 62@3@1 14/34 | 1 |
| 1:4-9 5luorobenzene (Surr) | . 2 | | 26 - 176 | | | 62033031 16/66 | 6203081 14/34 | 1 |

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Matrix: Solid

Lab Sample ID: 890-965-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

Client Sample ID: FS07

Date Collected: 07/20/21 07:43 Date Received: 07/21/21 12:29

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------------|-----------|----------|---------------------|---|---|--|---------|
| , s‾ a snr e RG snic& | d40.0 | U | 40.0 | 5 r Ez r | | 0 <fyyfy1 08:m6<="" td=""><td>0<fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1> | 1 |
| Q aR(-C6-C10 | | | | | | | | |
| Die⪙ a snr e RG snic& RveG | d40.0 | U | 40.0 | 5 r E r | | 0 <fyyfy108:m6< td=""><td>0<fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1></td></fyyfy108:m6<> | 0 <fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1> | 1 |
| C10-Cy8(| | | | | | | | |
| RII a snr e R@snic&@veCy8-C) 6(| d40.0 | U | 40.0 | 5 r E r | | 0 <fyyfy108:m6< td=""><td>0<fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1></td></fyyfy108:m6<> | 0 <fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1> | 1 |
| Kotsl KPH | d40.0 | U | 40.0 | 5 r 🔁 r | | 0 <fyyfy1 08:m6<="" td=""><td>0<fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1m4m<="" td=""><td>1</td></fyyfy1> | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Di loroo8@ne | 167 | | 26 - 176 | | | 62@3@1 6c/4t | 62@3@1 14/y4 | 1 |
| o-aerTi enpl | 11t | | 26 - 176 | | | 62@3@1 6c/4t | 62@3@1 14/y4 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 4410 | | 100 | 5rEzr | | | 0<\(\overline{\text{Ly}} \) \(\text{ | v0 |

Client Sample ID: FS08

Lab Sample ID: 890-965-3

Date Collected: 07/20/21 07:46

Matrix: Solid

Date Collected: 07/20/21 07:46 Date Received: 07/21/21 12:29

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|----------|-----------|---------|------------------|---|--|---|---------|
| 2 engene | d0.00y0y | U | 0.00y0y | 5 r 🔁 r | | 0<БууБу1 10:00 | 0 <fyyfy1 1mm4<="" td=""><td>1</td></fyyfy1> | 1 |
| Kol7ene | d0.00y0y | U | 0.00y0y | 5 r E z r | | 0<БууБу1 10:00 | 0 <fyyey11mm4< td=""><td>1</td></fyyey11mm4<> | 1 |
| j t3Bbengene | d0.00y0y | U | 0.00y0y | 5 r E z r | | 0<БууБу1 10:00 | 0 <fyyey11mm4< td=""><td>1</td></fyyey11mm4<> | 1 |
| 5 -u Blene h X-u Blene | d0.00m0) | U | 0.00m0) | 5 r Ez r | | 0<БууБу1 10:00 | 0 <fyyfy11mm4< td=""><td>1</td></fyyfy11mm4<> | 1 |
| o-u Blene | d0.00y0y | U | 0.00y0y | 5 r E r | | 0<БууБу1 10:00 | 0 <fyyfy11mm4< td=""><td>1</td></fyyfy11mm4<> | 1 |
| u Blene&pKotsI | d0.00m0) | U | 0.00m0) | 5 r E r | | 0<БууБу1 10:00 | 0 <fyyfy11mm4< td=""><td>1</td></fyyfy11mm4<> | 1 |
| Kotsl 2Kj u | d0.00m0) | U | 0.00m0) | 5 r Ez r | | 0 <fyyfy1 10:00<="" td=""><td>0<fyyfy11mm4< td=""><td>1</td></fyyfy11mm4<></td></fyyfy1> | 0 <fyyfy11mm4< td=""><td>1</td></fyyfy11mm4<> | 1 |
| | | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--------------|-----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113 | | 26 - 176 | 62@3@1 16/66 | 62@3@1 14/4y | 1 |
| 1:4-9 \$luorobenzene (Surr) | , C | | 26 - 176 | 62@3@1 16/66 | 6 6203081 14/4y | 1 |

| l | wethou: | 00100 | - ININI | Diesei | Range | Organics | (DRO) (G | (U) |
|---|---------|-------|---------|--------|-------|----------|----------|-----|
| | | | | | | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|-----------|--------|------------------|---|--|---|---------|
| , s‾ a snr e RG snic& | d40.0 | U | 40.0 | 5 r 🔁 r | | 0 <fyyfy1 08:m6<="" td=""><td>0<БууБу1 14:14</td><td>1</td></fyyfy1> | 0<БууБу1 14:14 | 1 |
| Q aR(-C6-C10 | | | | | | | | |
| Die⪙ a snr e RG snic& RveG | d40.0 | U | 40.0 | 5 r E r | | 0 <eyyey108:m6< td=""><td>0<5yy5y1 14:14</td><td>1</td></eyyey108:m6<> | 0<5yy5y1 14:14 | 1 |
| C10-Cy8(| | | | | | | | |
| RII asnr e RG snic& RveCy8-C) 6(| d40.0 | U | 40.0 | 5 r E z r | | 0 <fyyfy108:m6< td=""><td>0<fyyfy1 14:14<="" td=""><td>1</td></fyyfy1></td></fyyfy108:m6<> | 0 <fyyfy1 14:14<="" td=""><td>1</td></fyyfy1> | 1 |
| Kotsl KPH | d40.0 | U | 40.0 | 5 r Er | | 0 <fyyfy1 08:m6<="" td=""><td>0<БууБу1 14:14</td><td>1</td></fyyfy1> | 0<БууБу1 14:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1 Di laragema | 167 | | 26 176 | | | 62/02/01 60/4 | 62/02/04 11//11/ | |

| Surrogate | %Recovery | Qualifier | Limits | Prep | oared | Analyzed | Dil Fac |
|----------------|-------------|-----------|----------|------------------------|----------|--------------|---------|
| 1-Di loroo8@ne | 167 | | 26 - 176 | 62 B 3 B | 31 6c/4t | 62@3@1 1y/1y | 1 |
| o-aerTi enpl | 11 <i>y</i> | | 26 - 176 | 6203303 | 31 6c/4t | 62@3@1 1y/1y | 1 |

| Mathadi 200 0 Aniana | 1 | Chramatannahu | Calubla |
|-------------------------|-----|----------------|-----------|
| Method: 300.0 - Anions, | ION | Chromatography | - Soluble |

| modifical cools 7 miletio, for cities | iatography colabic | | | | | | |
|---------------------------------------|--------------------|------|-----------|---|----------|---|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 2040 | m9.< | 5 r E⁄z r | | | 0 <fy) 06:16<="" fy1="" td=""><td>10</td></fy)> | 10 |

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

Client Sample ID: FS09 Date Collected: 07/21/21 07:48

2470

Lab Sample ID: 890-965-4

Matrix: Solid

Date Received: 07/21/21 12:29 Sample Depth: - 4

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|-------------------------|--|----------------------------------|----------|--|---|---------|
| 2 engene | d0.00y00 | U | 0.00y00 | 5 r 🔁 r | | 0 <fyyfy1 10:00<="" td=""><td>0<БууБу1 14:04</td><td>1</td></fyyfy1> | 0<БууБу1 14:04 | 1 |
| Kol7ene | d0.00y00 | U | 0.00y00 | 5 r E r | | 0<БууБу1 10:00 | 0<БууБу1 14:04 | 1 |
| j t3Bbengene | d0.00y00 | U | 0.00y00 | 5 r E r | | 0<БууБу1 10:00 | 0<БууБу1 14:04 | 1 |
| 5 -u Blene h X-u Blene | d0.00m00 | U | 0.00m00 | 5 r E r | | 0<БууБу1 10:00 | 0<БууБу1 14:04 | 1 |
| o-u Blene | d0.00y00 | U | 0.00y00 | 5 r E r | | 0<БууБу1 10:00 | 0<БууБу1 14:04 | 1 |
| u Blene&pKotsI | d0.00m00 | U | 0.00m00 | 5 r E r | | 0<БууБу1 10:00 | 0<БууБу1 14:04 | 1 |
| Kotsl 2 Kj u | d0.00m00 | U | 0.00m00 | 5 r E r | | 0<БууБу1 10:00 | 0<БууБу1 14:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 133 | | 26 - 176 | | | 62@3@1 16/66 | 62@3@1 1y/6y | 1 |
| 1:4-9 \$luorobenzene (Surr) | 16y | | 00 470 | | | compand 46/66 | 62@3@1 1y/6y | 1 |
| Method: 8015B NM - Diesel Ran | , | RO) (GC) | 26 - 176 | | | 62@3@1 16/66 | 6263661 Ty/6y | , |
| 1.4-9 aluorobenzene (Surr) | TOY | | 20 - 170 | | | 6203087 76/66 | 02W3W1 1y/0y | , |
| Method: 8015B NM - Diesel Ran Analyte | ge Organics (DI | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte , s‾ a snr e R@snic& | ge Organics (DI | Qualifier | | Unit 5 r 🕏 r | <u>D</u> | | | |
| Method: 8015B NM - Diesel Ran Analyte | ge Organics (DI | Qualifier | RL | | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& O a R(-C6-C10 Diesel Range Organics (Over C10-C28) | ge Organics (DI Result d40.0 | Qualifier U | RL 40.0 | 5 r | <u>D</u> | Prepared 0<5yy5y1 08:n6 0<5yy5y1 08:n6 | Analyzed 0<5yy5y114:)6 0<5yy5y114:)6 | Dil Fac |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& Q a R(-C6-C10 Diesel Range Organics (Over | ge Organics (DI Result d40.0 | Qualifier U | RL 40.0 40.0 40.0 | 5 r Ēz r 5 r Ēz r 5 r Ēz r | <u>D</u> | Prepared 0<5yy5y1 08:m6 0<5yy5y1 08:m6 0<5yy5y1 08:m6 | Analyzed 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 | Dil Fac |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& O a R(-C6-C10 Diesel Range Organics (Over C10-C28) | ge Organics (DI Result d40.0 | Qualifier U | RL 40.0 | 5 r | <u>D</u> | Prepared 0<5yy5y1 08:n6 0<5yy5y1 08:n6 | Analyzed 0<5yy5y114:)6 0<5yy5y114:)6 | Dil Fac |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& Q a R(-C6-C10 Diesel Range Organics (Over C10-C28) RII a snr e R@snic& @vecCy8-C) 6(| ge Organics (DI Result d40.0 83.9 d40.0 | Qualifier U | RL 40.0 40.0 40.0 | 5 r Ēz r 5 r Ēz r 5 r Ēz r | <u>D</u> | Prepared 0<5yy5y1 08:m6 0<5yy5y1 08:m6 0<5yy5y1 08:m6 | Analyzed 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 | |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& Q a R(-C6-C10 Diesel Range Organics (Over C10-C28) RII a snr e R@snic& @vecCy8-C) 6(Total TPH | ge Organics (DI Result d40.0 83.9 d40.0 83.9 | Qualifier U | RL 40.0 40.0 40.0 40.0 | 5 r Ēz r 5 r Ēz r 5 r Ēz r | <u>D</u> | Prepared 0<5yy5y1 08:m6 0<5yy5y1 08:m6 0<5yy5y1 08:m6 0<5yy5y1 08:m6 | Analyzed 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 | Dil Fac |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& Q a R(-C6-C10 Diesel Range Organics (Over C10-C28) RII a snr e R@snic& @vecCy8-C) 6(Total TPH Surrogate | ge Organics (DI Result d40.0 83.9 d40.0 83.9 %Recovery | Qualifier U | RL 40.0 40.0 40.0 40.0 Limits | 5 r Ēz r 5 r Ēz r 5 r Ēz r | <u> </u> | Prepared 0<5yy5y1 08:m6 0<5yy5y1 08:m6 0<5yy5y1 08:m6 0<5yy5y1 08:m6 Prepared | Analyzed 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Range Analyte , s‾ a snr e R@snic& Q a R(-C6-C10 Diesel Range Organics (Over C10-C28) RII a snr e R@snic&@vecCy8-C) 6(Total TPH Surrogate 1-Di Ioroo8@ne | ge Organics (DI Result d40.0 83.9 d40.0 83.9 %Recovery , 6 , c | Qualifier U Qualifier | RL 40.0 40.0 40.0 40.0 Limits 26 - 176 | 5 r Ēz r 5 r Ēz r 5 r Ēz r | <u>D</u> | Prepared 0<5yy5y1 08:n6 0<5yy5y1 08:n6 0<5yy5y1 08:n6 0<5yy5y1 08:n6 Prepared 62@3@1 6c/4t | Analyzed 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 0<5yy5y1 14:)6 Analyzed 6203081 1y/7t | Dil Fac |

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|-------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 390-965-1 | FS06 | 117 | 97 | |
| 390-965-2 | FS07 | 106 | 97 | |
| 390-965-3 | FS08 | 112 | 98 | |
| 390-965-4 | FS09 | 122 | 105 | |
| _CS 880-5481/1-A | Lab Control Sample | 100 | 102 | |
| LCSD 880-5481/2-A | Lab Control Sample Dup | 102 | 105 | |
| MB 880-5481/5-A | Method Blank | 126 | 95 | |

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| _ | | | |
|-------------------|------------------------|----------|----------|
| | | 1CO1 | OTPH1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-965-1 | FS06 | 92 | 101 |
| 890-965-2 | FS07 | 103 | 116 |
| 890-965-3 | FS08 | 103 | 115 |
| 890-965-4 | FS09 | 90 | 98 |
| LCS 880-5350/2-A | Lab Control Sample | 89 | 88 |
| LCSD 880-5350/3-A | Lab Control Sample Dup | 96 | 96 |
| MB 880-5350/1-A | Method Blank | 100 | 115 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Released to Imaging: 2/28/2022 4:36:12 PM

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5481/5-A

Matrix: Solid Analysis Batch: 5527 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5481

| | MB | MB | | | | | | |
|------------------------|----------|-----------|---------|----------------|---|---|--|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| 2 engene | d0.00y00 | U | 0.00y00 | 5 r E⁄z r | | 0 <fyyfy1 10:00<="" td=""><td>0<fyyfy1 1myy<="" td=""><td>1</td></fyyfy1></td></fyyfy1> | 0 <fyyfy1 1myy<="" td=""><td>1</td></fyyfy1> | 1 |
| Kol7ene | d0.00y00 | U | 0.00y00 | 5 r ⊵ r | | 0<БууБу1 10:00 | 0<БууБу1 1myy | 1 |
| j t3Bbengene | d0.00y00 | U | 0.00y00 | 5 r ⊵ r | | 0<БууБу1 10:00 | 0<БууБу1 1myy | 1 |
| 5 -h Blene X &-h Blene | d0.00u00 | U | 0.00u00 | 5 r Ez r | | 0<БууБу1 10:00 | 0 <fyyfy1 1myy<="" td=""><td>1</td></fyyfy1> | 1 |
| o-h Blene | d0.00y00 | U | 0.00y00 | 5 r ⊵ r | | 0<БууБу1 10:00 | 0<БууБу1 1myy | 1 |
| h Bleneps Kot, I | d0.00u00 | U | 0.00u00 | 5 r ⊵ r | | 0<БууБу1 10:00 | 0 <fyyfy1 1myy<="" td=""><td>1</td></fyyfy1> | 1 |
| Kot, I 2Kj h | d0.00u00 | U | 0.00u00 | 5 r Ez r | | 0<БууБу1 10:00 | 0<БууБу1 1myy | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepare | d Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------------|---------------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | 07/22/21 10 | 07/22/21 13:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 07/22/21 10 | 0:00 07/22/21 13:22 | 1 |

Lab Sample ID: LCS 880-5481/1-A

Matrix: Solid

Analysis Batch: 5527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5481

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit %Rec 2 engene 0.100 0.09my0 5 r Er 9m <0 - 1m0 0.100 0.08u<6 Kol7ene 5 r Er 84 <0 _ 1m0 0.08u9y 0.100 j t3Bbengene 5 r Er 84 <0 - 1m0 5 -h Blene X &-h Blene 0.1<mu <0 _ 1m0 0.y00 5 r Er 0.08uu< o-h Blene 0.100 5 r Er <0 - 1m0 8u

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | 70 - 130 |
| 1 4-Difluorobenzene (Surr) | 102 | 70 - 130 |

Lab Sample ID: LCSD 880-5481/2-A

Matrix: Solid

Analysis Batch: 5527

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5481

| Sp | oike LCSD | LCSD | | | %Rec. | | RPD |
|---------------------------|-------------|------------------|---|------|---------------------|-----|-------|
| Analyte Add | ded Result | Qualifier Unit | D | %Rec | Limits | RPD | Limit |
| 2 engene 0. | 100 0.1016 | 5 r 🗷 | | 10y | <0 - 1m0 | 9 | m4 |
| Kol7ene 0. | 100 0.09146 | 5 r E z ı | , | 9у | <0 ₋ 1m0 | 8 | m4 |
| j t3Blbengene 0. | 100 0.090m≤ | 5 r 🔁 ı | • | 90 | <0 ₋ 1m0 | 6 | m4 |
| 5 -h Blene X &-h Blene 0. | y00 0.18u< | 5 r E zı | • | 9у | <0 - 1m0 | 6 | m4 |
| o-h Blene 0. | 100 0.091yu | 5 r | | 91 | <0 - 1m0 | 8 | m4 |

LCSD LCSD

| Surrogate | %Recovery Qu | ialitier Limits | |
|-----------------------------|--------------|-----------------|--|
| 4-Bromofluorobenzene (Surr) | 102 | 70 - 130 | |
| 1,4-Difluorobenzene (Surr) | 105 | 70 - 130 | |

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

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

Lab Sample ID: MB 880-5350/1-A Client Sample ID: Method Blank Matrix: Solid

Analysis Batch: 5510

Prep Type: Total/NA Prep Batch: 5350 MR MR

| | IVID | IVID | | | | | | |
|---------------------------------|--------|-----------|------|------------------|---|---------------|---|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| R, poline O, nr e (&, nicp | d40.0 | U | 40.0 | 5 r 🔁 r | | 0<∄9Ey1 08:u6 | 0 <fyyfy1 1y:0<<="" td=""><td>1</td></fyyfy1> | 1 |
|)RO(v-C6-C10 | | | | | | | | |
| Diepel O, nr e (G, nicp)(HeG | d40.0 | U | 40.0 | 5 r E z r | | 0<∄9Ey1 08:u6 | 0 <fyyfy1 1y:0<<="" td=""><td>1</td></fyyfy1> | 1 |
| C10-Cy8v | | | | | | | | |
| (IIO, nre(G, nicp)(HeGCy8-Cm6v | d40.0 | U | 40.0 | 5 r 🔁 r | | 0<∄95y1 08:u6 | 0<5yy5y1 1y:0< | 1 |
| Kot, I KPf | d40.0 | U | 40.0 | 5 r Er | | 0<∄95y1 08:u6 | 0 <fyyfy1 1y:0<<="" td=""><td>1</td></fyyfy1> | 1 |
| | | | | | | | | |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-8 Gorooha ne | 100 | | 70 - 130 | 07/19/21 0a:46 | 07/22/21 12:07 | 1 |
| o-TerpCenyl | 115 | | 70 - 130 | 07/19/21 0a:46 | 07/22/21 12:07 | 1 |

Lab Sample ID: LCS 880-5350/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 5510

Prep Batch: 5350 Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits R, poline O, nr e (G, nicp 1000 5 r Er <6 <0 - 1m0 <6y.1)RO(v-C6-C10 Diepel O, nre (G, nicp)(HeG 1000 881.8 5 r Er 88 <0 - 1m0 C10-Cy8v

LCS LCS %Recovery Qualifier Limits Surrogate 1-8 Gorooha ne а9 70 - 130 o-TerpCenyl 70 - 130 aa

Lab Sample ID: LCSD 880-5350/3-A Matrix: Solid

Analysis Batch: 5510

Prep Batch: 5350 LCSD LCSD Spike %Rec. **RPD** Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit 808.y R, poline O, nr e (&, nicp 1000 81 <0 - 1m0 6 y0)RO(v-C6-C10 Diepel O, nre (&, nicp)(HeG 1000 9u9.u 5 r Er 94 y0 <0 - 1m0C10-Cy8v

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-8 Goroohd ne | 96 | | 70 - 130 |
| o-TerpCenyl | 96 | | 70 - 130 |

LCSD LCSD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5537/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5560

| | MB | MB | | | | | | |
|---------|--------|-----------|------|----------------|---|----------|--|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| C3lo@ e | d4.00 | U | 4.00 | 5 r E r | | | 0 <fymfy1 0mu4<="" td=""><td>1</td></fymfy1> | 1 |

j 7@ainp hencosC, @pb, /

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Lab Sample ID: LCS 880-5537/2-A

QC Sample Results

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample

90 - 110

100

Matrix: Solid Prep Type: Soluble Analysis Batch: 5560

yu9.y

5 r Er

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits C3lo@ e

y40

Lab Sample ID: LCSD 880-5537/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5560

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec C3lo⊕ e y40 yu9.9 5 r Er 100 90 - 110 0 y0

j 7@ainp hencosC, @pb, /

QC Association Summary

Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

GC VOA

Prep Batch: 5481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-965-1 | FS06 | Total/NA | Solid | 5035 | |
| 890-965-2 | FS07 | Total/NA | Solid | 5035 | |
| 890-965-3 | FS08 | Total/NA | Solid | 5035 | |
| 890-965-4 | FS09 | Total/NA | Solid | 5035 | |
| MB 880-5481/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5481/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5481/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Analysis Batch: 5527

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-965-1 | FS06 | Total/NA | Solid | 8021B | 5481 |
| 890-965-2 | FS07 | Total/NA | Solid | 8021B | 5481 |
| 890-965-3 | FS08 | Total/NA | Solid | 8021B | 5481 |
| 890-965-4 | FS09 | Total/NA | Solid | 8021B | 5481 |
| MB 880-5481/5-A | Method Blank | Total/NA | Solid | 8021B | 5481 |
| LCS 880-5481/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5481 |
| LCSD 880-5481/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5481 |

GC Semi VOA

Prep Batch: 5350

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-965-1 | FS06 | Total/NA | Solid | 8015NM Prep | |
| 890-965-2 | FS07 | Total/NA | Solid | 8015NM Prep | |
| 890-965-3 | FS08 | Total/NA | Solid | 8015NM Prep | |
| 890-965-4 | FS09 | Total/NA | Solid | 8015NM Prep | |
| MB 880-5350/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5350/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5350/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5510

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-965-1 | FS06 | Total/NA | Solid | 8015B NM | 5350 |
| 890-965-2 | FS07 | Total/NA | Solid | 8015B NM | 5350 |
| 890-965-3 | FS08 | Total/NA | Solid | 8015B NM | 5350 |
| 890-965-4 | FS09 | Total/NA | Solid | 8015B NM | 5350 |
| MB 880-5350/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5350 |
| LCS 880-5350/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5350 |
| LCSD 880-5350/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5350 |

HPLC/IC

Leach Batch: 5537

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-965-1 | FS06 | Soluble | Solid | DI Leach | |
| 890-965-2 | FS07 | Soluble | Solid | DI Leach | |
| 890-965-3 | FS08 | Soluble | Solid | DI Leach | |
| 890-965-4 | FS09 | Soluble | Solid | DI Leach | |
| MB 880-5537/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5537/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5537/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

HPLC/IC

Analysis Batch: 5560

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-965-1 | FS06 | Soluble | Solid | 300.0 | 5537 |
| 890-965-2 | FS07 | Soluble | Solid | 300.0 | 5537 |
| 890-965-3 | FS08 | Soluble | Solid | 300.0 | 5537 |
| 890-965-4 | FS09 | Soluble | Solid | 300.0 | 5537 |
| MB 880-5537/1-A | Method Blank | Soluble | Solid | 300.0 | 5537 |
| LCS 880-5537/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5537 |
| LCSD 880-5537/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5537 |

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Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

Client Sample ID: FS06

Lab Sample ID: 890-965-1 Date Collected: 07/20/21 07:40

Matrix: Solid

Date Received: 07/21/21 12:29

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5481 | 07/22/21 10:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5527 | 07/22/21 14:04 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 5350 | 07/22/21 08:46 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 5510 | 07/22/21 14:33 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5537 | 07/22/21 12:08 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 5560 | 07/23/21 06:06 | CH | XEN MID |

Client Sample ID: FS07 Lab Sample ID: 890-965-2 Date Collected: 07/20/21 07:43

Date Received: 07/21/21 12:29

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 5481 07/22/21 10:00 KL XEN MID Total/NA 8021B 5527 07/22/21 14:24 XEN MID Analysis 1 KL Total/NA Prep 07/22/21 08:46 XEN MID 8015NM Prep 5350 DM Total/NA 8015B NM XEN MID Analysis 1 5510 07/22/21 14:54 AJ XEN MID Soluble Leach DI Leach 5537 07/22/21 12:08 СН XEN MID Soluble Analysis 300.0 20 5560 07/23/21 06:11 CH

Client Sample ID: FS08 Lab Sample ID: 890-965-3

Date Collected: 07/20/21 07:46 **Matrix: Solid** Date Received: 07/21/21 12:29

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5481 | 07/22/21 10:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5527 | 07/22/21 14:45 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 5350 | 07/22/21 08:46 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 5510 | 07/22/21 15:15 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5537 | 07/22/21 12:08 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 5560 | 07/23/21 06:16 | CH | XEN MID |

Client Sample ID: FS09 Lab Sample ID: 890-965-4 Date Collected: 07/21/21 07:48

Date Received: 07/21/21 12:29

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5481 | 07/22/21 10:00 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5527 | 07/22/21 15:05 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 5350 | 07/22/21 08:46 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 5510 | 07/22/21 15:36 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5537 | 07/22/21 12:08 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 5560 | 07/23/21 06:22 | CH | XEN MID |

Laboratory References:

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

Eurofins Xenco, Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-965-1

Project/Site: Big Eddy Unit 150

Laboratory: Eurofins Xenco, Midland

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

| Authority Texas | | Program | Identification Number | Expiration Date 06-30-22 | |
|---|-------------|----------------------------------|---|------------------------------|--|
| | | IELAP | T104704400-20-21 | | |
| The following analytes the agency does not of | 1 / | out the laboratory is not certif | fied by the governing authority. This list ma | ay include analytes for whic | |
| Analysis Method | Prep Method | Matrix | Analyte | | |
| 8015B NM | 8015NM Prep | Solid | Total TPH | | |
| 8021B | 5035 | Solid | Total BTEX | | |

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Method Summary

Client: WSP USA Inc. Job ID: 890-964-1

P@TectEsite: 2ir j // BUnit 140

| Method | Method Description | Protocol | Laboratory |
|------------|--------------------------------------|----------|------------|
| 80d12 | yol5tile V G 5nic Coa Comn/ p us C(| SW8g6 |) j X NID |
| 80142 XN | Diepel M5nr e V G 5nicp LDMV (us C(| SW8g6 |) j X NID |
| R00.0 | Anionp3Ion C, @a 5tor (\$O, B | NCAWW |) j X NID |
| 10R4 | Clope/ SBptea Pm@e 5n/ h@O | SW8g6 |) j X NID |
| 8014XN P@O | Nic@ext@ction | SW8g6 |) j X NID |
| DI Le5c, | Deionize/ W5teGLe5c, inr Pace/ ma | AShN |) j X NID |

Protocol References:

AShN = AShN Inte@5tion5I

NCAWW = "Net, o/ p FoGc, ea ic5l An5lBpip Vf W5teGAn/ W5ptep"3j PA-600fg-79-0d03N5@, 198RAn/ Snbpeqment Mevipionp.

SW8g6 = "hept Net, o/ p FoGj v5ln6tinr Soli/ W5pte3P, Bpic5lfc, ea ic5l Net, o/ p"3h, iG j / ition3Xovea beG1986 An/ Itp UO' 5tep.

Laboratory References:

) j X NID = j m@finp) enco3Ni/ l5n/ 31d11 W. Flo@ 5 Ave3Ni/ l5n/ 3h) 797013hj L ugRd(70g-4gg0

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Sample Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-965-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-965-1 | FS06 | Solid | 07/20/21 07:40 | 07/21/21 12:29 | - 4 |
| 890-965-2 | FS07 | Solid | 07/20/21 07:43 | 07/21/21 12:29 | - 4 |
| 890-965-3 | FS08 | Solid | 07/20/21 07:46 | 07/21/21 12:29 | - 4 |
| 890-965-4 | FS09 | Solid | 07/21/21 07:48 | 07/21/21 12:29 | - 4 |

Project Manager:

Dan Moir

Bill to: (if different)

Company Name: Address:

Company Name:

WSP USA

Sampler's Name: P.O. Number:

Temperature (°C):

SAMPLE RECEIPT

Temp Blank: Yes 50

S

Wet ice:

Wes

Ew. 2531. 01562. Exp.

175

10011409801

iners

Jeremy Hill

Project Name:

Bis Folly Unit

Project Number:

In. NEM 202 4854 885

TE014920126

Rush:

1445

Routine

Turn Around

ANALYSIS REQUEST

Deliverables: EDD Reporting:Level II Program: UST/PST □RP □rownfields □RC

\$□perfund

Work Order Comments

State of Project:

□evel III □ST/UST

RP

UBvel IV

ADaPT |

Other:

Work Order Notes

Due Date: 7/4/1

Phone:

(432) 236-3849 Midland, TX 79705 3300 North A Street

Email: Jeremy.Hill@wsp.com, Dan.Moir@wsp.com

City, State ZIP:

Carlsbad, NM 88220 522 W. Mermod St. XTO Energy

City, State ZIP:

ddress:

13

Work Order No:

| Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Allanta, GA (770-449-8800) Tampa, FL (813-820-2000) | Hobbs.NM (575-392- |
|---|--------------------|
| Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 | Midland |
| Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 | Houston, |
| Chain of Custody | |

Login Sample Receipt Checklist

Job Number: 890-965-1

SDG Number:

Login Number: 965 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Client: WSP USA Inc.

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

Eurofins Xenco, Carlsbad Page 19 of 20

Login Sample Receipt Checklist

Job Number: 890-965-1

SDG Number:

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 07/22/21 10:09 AM

Creator: Phillips, Kerianna

Client: WSP USA Inc.

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-980-1

Laboratory Sample Delivery Group: TE012920126

Client Project/Site: Big Eddy Unit 150

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 7/26/2021 5:43:14 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

Released to Imaging: 2/28/2022 4:36:12 PM

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

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

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Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-980-1

SDG: TE012920126

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Definitions/Glossary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Qualifiers

GC VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit
PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

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Case Narrative

Client: WSP USA Inc.

Job ID: 890-980-1 SDG: TE012920126 Project/Site: Big Eddy Unit 150

Job ID: 890-980-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-980-1

Receipt

The sample was received on 7/22/2021 4:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.4°C

GC VOA

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

GC Semi VOA

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

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

Client Sample Results

41Cient WSt Pli UA

W2orl Unjt @e:/ BiGggd Si@e6y0

Job ID: 890-980-6 t Dc:. G06T9T06TE

t Dc:. G06T9T06TE

Lab Sample ID: 890-980-6

Wat5iM Sr lix

Client Sample ID: S4 01

Date Cr lleotex: 0dd1d6 60:7d Date Reoei/ ex: 0dd1d6 62:v6

Sample Dept3: 0 - h

| Analyte | Result | Qualifie5 | RL | Unit | D | P5epa5ex | Analyzex | Dil Fac |
|--|--------------------------------------|---------------------------|---------------------------------|----------------------------|----------|--|--|----------------------------|
| / l i 5l i l | z0 <i>A</i> 00T0T | S | 0 <i>A</i> 00T0T | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| . oʻlul i l | z0 A 00T0T | S | 0 <i>A</i> 00T0T | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| Gend1bli5lil | z0 A 00T0T | S | 0 <i>A</i> 00T0T | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| <-Xd1il & p-Xd1il | z0A00307 | S | 0 <i>A</i> 00307 | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| o-Xd1 i I | z0 A 00T0T | S | 0 <i>A</i> 00T0T | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| Xd1 ils, .oea1 | z0A00307 | S | 0 <i>A</i> 00307 | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| . oea1/ . GX | z0/400307 | S | 0 <i>A</i> 00307 | < BjmB | | 0KjT7jT6 66:06 | 0KjT3jT6 0T:63 | 6 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112 | | 67 - 107 | | | 763' 03' 1 11:71 | 763 43 1 7/:14 | 1 |
| 194-5 ,fluorobenzene (Surr) | Di | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 7/:14 | 1 |
| Wot2ry: 9067P NW Diagol Pane | no Ofganios (D | BO) (GC) | | | | | | |
| Wet3r x: 8067B NW - Diesel Rang | ge O5ganios (Di | RO) (GC) | | | | | | |
| Wet3rx: 8067B NW - Diesel Rang Analyte c aso © Rai B O2Bai ©s | | Qualifie5 | RL 39/9 | | <u>D</u> | P5epa5ex 0KjT7jT6 63:T9 | Analyzex 0KjT3jT6 69:y3 | |
| Analyte caso1Cl RaiBl O2BaiCbs | Result | Qualifie5 | | | <u>D</u> | | | |
| Analyte caso 10:1 Rai Bl O2Bai 00:5 (cRO)-4E-460 D0:sl1Rai Bl O2Bai 00:5 (Ovl2 | Result | Qualifie5 | | | <u>D</u> | | | 6 |
| Analyte c aso 1C Rai B O2Bai CLs (c RO)-4 E-460 DCs 1Rai B O2Bai CLs (Ov 2 460-4T8) | Result z39/9 | Qualifie5 S | 39 <i>A</i> 9 | < BjmB | <u>D</u> | 0КјТ7јТ6 63:Т9 | 0KjT3jT6 69:y3 | 6 |
| Analyte c aso 1C Rai B O2Bai CLs (c RO)-4 E-460 DCs 1Rai B O2Bai CLs (Ov 2 460-4T8) | Result | Qualifie5 S S | 39A9 39A9 | < BjmB | <u>D</u> | 0қ/T7/T6 63:Т9 0қ/T7/T6 63:Т9 | 0қ/Т3/Т6 69:у3 0қ/Т3/Т6 69:у3 | 6 |
| Analyte c aso 1Cl Rai Bl O2Bai CLs (c RO)-4 E-460 DCsl 1Rai Bl O2Bai CLs (Ovl 2 460-4 T8) Ol1Rai Bl O2Bai CLs (Ovl 24 T8-4 7E) . oea1. WH | Result | Qualifie5 S S | 39A9 39A9 39A9 | < BjmB < BjmB < BjmB | <u>D</u> | 0KjT7jT6 63:T9 0KjT7jT6 63:T9 0KjT7jT6 63:T9 0KjT7jT6 63:T9 | 0ҚТ3јТ6 69:y3 0ҚТ3јТ6 69:y3 0ҚТ3јТ6 69:y3 | 6 |
| Analyte c aso 10:1 Rai Bl O2Bai Cus (c RO)-4 E-4 60 DCsl 1Rai Bl O2Bai Cus (Ovl 2 4 60-4 T8) O11Rai Bl O2Bai Cus (Ovl 24 T8-4 7E) | Result | Qualifie5 S S S S | 39A9 39A9 39A9 39A9 | < BjmB < BjmB < BjmB | <u>D</u> | 0ҚТ7јТ6 63:Т9 0ҚТ7јТ6 63:Т9 0ҚТ7јТ6 63:Т9 0ҚТ7јТ6 63:Т9 | ОҚТЗ]Т6 69:у3 ОҚТЗ]Т6 69:у3 ОҚТЗ]Т6 69:у3 ОҚТЗ]Т6 69:у3 ОҚТЗ]Т6 69:у3 | 6 |
| Analyte c aso 1Cl Rai Bl O2Bai CLs (c RO)-4 E-4 60 DCsl 1Rai Bl O2Bai CLs (Ovl 2 4 60-4 T8) Ol1Rai Bl O2Bai CLs (Ovl 24 T8-4 7E) . 0ea1. WH | Result z39A z39A z39A z39A %Recovery | Qualifie5 S S S S | 39A9 39A9 39A9 39A9 | < BjmB < BjmB < BjmB | <u> </u> | 0Қ177jT6 63:Т9 0Қ177jT6 63:Т9 0Қ177jT6 63:Т9 0Қ177jT6 63:Т9 <i>Prepared</i> | 0ҚТЗ]Т6 69:у3 0ҚТЗ]Т6 69:у3 0ҚТЗ]Т6 69:у3 0ҚТЗ]Т6 69:у3 ОҚТЗ]Т6 69:у3 Analyzed | 66 66 Dil Fac |
| Analyte c aso tCl Rai Bl O2Bai Cts (c RO)-4 E-4 60 DCsl 1Rai Bl O2Bai Cts (Ovl 2 4 60-4 T8) Ol1Rai Bl O2Bai Cts (Ovl 24 T8-4 7E) . oea1. WH Surrogate 1-8 Cloroohd ne | Result | Qualifie5 S S S Qualifier | 39A9 39A9 39A9 Limits 67 - 107 | < BjmB < BjmB < BjmB | <u>D</u> | 0kjT7jT6 63:T9 0kjT7jT6 63:T9 0kjT7jT6 63:T9 0kjT7jT6 63:T9 0kjT7jT6 63:T9 Prepared 763 03 1 14:/ D | OKjT3jT6 69:y3 OKjT3jT6 69:y3 OKjT3jT6 69:y3 OKjT3jT6 69:y3 OKjT3jT6 69:y3 Analyzed 763 43 1 1Da4 | 6 6 |
| Analyte c aso tCl Rai Bl O2Bai Cts (c RO)-4 E-4 60 DCsl 1Rai Bl O2Bai Cts (Ovl 2 4 60-4 T8) Ol1Rai Bl O2Bai Cts (Ovl 24 T8-4 7E) . oea1. WH Surrogate 1-8 Cloroohd ne o-TerpCenyl | Result | Qualifie5 S S S Qualifier | 39A9 39A9 39A9 Limits 67 - 107 | < BjmB < BjmB < BjmB | <u>D</u> | 0kjT7jT6 63:T9 0kjT7jT6 63:T9 0kjT7jT6 63:T9 0kjT7jT6 63:T9 0kjT7jT6 63:T9 Prepared 763 03 1 14:/ D | OKjT3jT6 69:y3 OKjT3jT6 69:y3 OKjT3jT6 69:y3 OKjT3jT6 69:y3 OKjT3jT6 69:y3 Analyzed 763 43 1 1Da4 | Dil Fao 6 6 6 6 6 Dil Fac |

DF/, = 63f-D@uo2obli(III)t u22Z

Surrogate Summary

41Cient WSt PliUA W2orl Unjt @e:/ @BGggd Si @6y0

Job ID: 890-980-6

t Dc:.G06T9T06TE

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| - | | | | Percent Surrogate Rec |
|------------------------------|-------------------------|----------|----------|-----------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-980-6 | t n 0T | 66E | 98 | |
| 890-980-6 5 t | t n OT | 6T6 | 60E | |
| 890-980-6 5 t D | t n OT | 666 | 607 | |
| M4t 880-yy8Lj6-P | Mab 4 oi e2o1t amp1 | 666 | 607 | |
| M4t D 880-yy8LjT-P | Mab 4 oi e2o1t amp1 Dup | 60L | 607 | |
| 5 / 880-yy70jy-P | 5 lehog / 1aik | 608 | 9E | |
| 5 / 880-yy8Ljy-P | 5 lehog / 1aik | 60E | 9L | |
| Surrogate Legend | | | | |
| / F/ = f -/ 2omozuo2obl i (I | il)tu22Z | | | |

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

Prep Type: Total/NA Matrix: Solid

| - | | | | Percent Surrogate Recovery (Acceptance Limits) |
|-------------------------|-------------------------|----------|----------|--|
| | | 1001 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-980-6 | t n 0T | 98 | 668 | |
| 890-980-6 5 t | t n OT | 9f | 60L | |
| 890-980-6 5 t D | t n OT | 9E | 60y | |
| M4t 880-yE0LjT-P | Mab 4 oi e2o1t amp1 | 99 | 666 | |
| M4t D880-yE0LjL-P | Mab 4 oi e2o1t amp1 Dup | 97 | 609 | |
| 5 / 880-yE0Lj6-P | 5 Iehog / 1aik | 9T | 66f | |
| Surrogate Legend | | | | |
| 64 O = 6-4 h1b2boUtai I | | | | |

Gu2oz0s XI i Uo34 a2sbag

O. WH = o-. I 2phl i d1

41Cient WSt Pli UA

Job ID: 890-980-6 t Dc:.G06T9T06TE W2orl Unjt @l:/ @lGggd Si @6y0

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5570/5-A

Matrix: Solid

Analysis Batch: 5575

| Client | Sample | ID: | Method | Blank |
|--------|--------|-----|--------|-------|
|--------|--------|-----|--------|-------|

Prep Type: Total/NA

Prep Batch: 5570

| | MB | MB | | | | | | |
|-------------------|-------------------|-----------|------------------|--------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| / li 5li l | z0A00T00 | S | 0A00T00 | < BjmB | _ | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| . o13I i I | z0A00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| Geud1bli5lil | z0 A 00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| <-Xd1il & p-Xd1il | z0A00h00 | S | 0 A 00h00 | < BjmB | | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| o-Xd1 i l | z0A00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| Xd1 i I s, . oea1 | z0A00h00 | S | 0 A 00h00 | < BjmB | | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| . oea1/ . GX | z0A00h00 | S | 0 A 00h00 | < BjmB | | 0KjT7jT6 60:TT | 0KjT7jT6 6y:06 | 6 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery (| Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|----------|---------------|-----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | | 72 - 102 | 273 03 1 129/ | 273 03 1 1: 921 | 1 |
| 1 🗗 - i 8 luorobenzene (Surr) | 5, | | 72 - 102 | 273 03 1 129/ | 273'03'1 1: 921 | 1 |

Lab Sample ID: MB 880-5583/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 5575

MB M

| | | | | | Prep Type: 1 | Total/NA | |
|-----------|---------|--------|---|----------------|----------------|----------|--|
| | | | | | Prep Bato | :h: 5583 | |
| ИВ | | | | | | | |
| Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| 3 | 0A00T00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|-------------------|-----------|------------------|--------|---|----------------|----------------|---------|
| / l i 5l i l | z0A00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| . oƁl i l | z0A00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| Geud1bli5lil | z0 A 00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| <-Xd1il & p-Xd1il | z0A00h00 | S | 0A00h00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| o-Xd1 i I | z0A00T00 | S | 0A00T00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| Xd1ils,.oea1 | z0A00h00 | S | 0 A 00h00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| . oea1/ . GX | z0A00h00 | S | 0A00h00 | < BjmB | | 0KjT7jT6 66:06 | 0KjThjT6 06:yT | 6 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 12, | | 72 - 102 | 273 03 1 11921 | 273 43 1 219 / | 1 |
| 1 🗗 - i 🕯 luorobenzene (Surr) | 50 | | 72 - 102 | 273 03 1 11921 | 273 43 1 219 / | 1 |

Lab Sample ID: LCS 880-5583/1-A

Matrix: Solid

Analysis Batch: 5575

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

Prep Batch: 5583

| | Spike | LCS | LCS | | | | %Rec. | |
|-------------------|----------------|------------------|-----------|--------|---|------|---------------------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| / I i 5I i I | 0 <i>A</i> 600 | 0 <i>A</i> 60TT | | < BjmB | | 60T | K0 ₋ 670 | |
| .oBlil | 0 <i>A</i> 600 | 0A09Th7 | | < BjmB | | 9T | K0 ₋ 670 | |
| Geud1bli5liI | 0 <i>A</i> 600 | 0 A 089h0 | | < BjmB | | 89 | K0 - 670 | |
| <-Xd1il & p-Xd1il | 0 <i>A</i> T00 | 0 <i>A</i> 6876 | | < BjmB | | 9T | K0 ₋ 670 | |
| o-Xd1 i l | 0 <i>A</i> 600 | 0 A 09T0K | | < BjmB | | 9T | K0 - 670 | |
| | | | | | | | | |

| LCS | LCS |
|-----|-----|
| LUS | LUS |

| Surrogate | %Recovery Qual | ifier Limits |
|-----------------------------|----------------|--------------|
| 4-Bromofluorobenzene (Surr) | 111 | 72 - 102 |
| 1DI-i 8luorobenzene (Surr) | 127 | 72 - 102 |

G32oRCs XI i Ub, 4 a2sbag

41Cient WSt Pli UA W2orl Unjt @l:/ @lGggd Si @6y0 Job ID: 890-980-6

t Dc: . G06T9T06TE

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

Lab Sample ID: LCSD 880-5583/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 5575** Prep Batch: 5583

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD | |
|-------------------|----------------|------------------|-----------|--------|---|------|---------------------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| / l i 5l i l | 0 <i>A</i> 600 | 0 /6 0T8 | | < BjmB | | 607 | K0 - 670 | 6 | 7у | |
| . o13IiI | 0/4600 | 0A089K8 | | < BjmB | | 90 | K0 ₋ 670 | 7 | 7у | |
| Geud1bli5lil | 0 <i>A</i> 600 | 0 A 08Ehy | | < BjmB | | 8E | K0 ₋ 670 | 7 | 7y | |
| <-Xd1il & p-Xd1il | 0 <i>A</i> T00 | 0 /6 KyT | | < BjmB | | 88 | K0 ₋ 670 | h | 7у | |
| o-Xd1 i I | 0 <i>A</i> 600 | 0 A 08K9h | | < BjmB | | 88 | K0 ₋ 670 | У | 7y | |

| | LCSD | LCSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 120 | | 72 - 102 |
| 1124-i 8lluorobenzene (Surr) | 127 | | 72 - 102 |

Lab Sample ID: 890-980-1 MS Client Sample ID: SW02 Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5575** Prep Batch: 5583

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

| , j | | | , | | | _ | ,0.100 | | |
|-------------------|----------|----|-----------------|------------------|--------|---|--------|---------------------|--|
| / I i 5I i I | z0A00T0T | S | 0A099E | 0A096T7 | < BjmB | | 9T | K0 ₋ 670 | |
| . oƁlil | z0A00T0T | S | 0 A 099E | 0 <i>A</i> 08777 | < BjmB | | 8h | K0 ₋ 670 | |
| Geud1bli5lil | z0A00T0T | S | 0 A 099E | 0 <i>A</i> 086Ky | < BjmB | | 8T | K0 - 670 | |
| <-Xd1il & p-Xd1il | z0A00h07 | S | 0.4699 | 0.46E9h | < BjmB | | 8y | K0 ₋ 670 | |
| o-Xd1 i I | z0A00T0T | S | 0 A 099E | 0.4087Eh | < BjmB | | 8h | K0 - 670 | |
| | MS | Me | | | | | | | |

| | MS | MS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 1/1 | | 72 - 102 |
| 1D4-i 8luorobenzene (Surr) | 12, | | 72 - 102 |

Lab Sample ID: 890-980-1 MSD Client Sample ID: SW02 Matrix: Solid Prep Type: Total/NA

Analysis Batch: 5575

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | - | RPD |
|-------------------|-------------------|-----------|-----------------|------------------|-----------|--------|---|------|---------------------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| / I i 5I i I | z0 A 00T0T | S | 0 A 099h | 0A08E9E | | < BjmB | | 8K | K0 ₋ 670 | у | 7y |
| . o13l i l | z0 A 00T0T | S | 0 A 099h | 0A0KKy7 | | < BjmB | | K8 | K0 - 670 | K | 7y |
| Geud1bli5lil | z0 A 00T0T | S | 0 A 099h | 0 A 0K7Ty | | < BjmB | | Kh | K0 ₋ 670 | 66 | 7y |
| <-Xd1il & p-Xd1il | z0 A 00h07 | S | 0.4699 | 0 <i>A</i> 6h99 | | < BjmB | | Ky | K0 ₋ 670 | 6T | 7y |
| o-Xd1 i l | z0A00T0T | S | 0 A 099h | 0.40KhEK | | < BjmB | | Ky | K0 ₋ 670 | 66 | 7y |

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 111 | | 72 - 102 |
| 1D-i 8luorobenzene (Surr) | 127 | | 72 - 102 |

G32oRCs XI i Ub, 4 a2sbag

Prep Batch: 5583

41Cient WSt Pli UA

W2orl Unjt @l:/ @lGggd Si @6y0

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

Job ID: 890-980-6 t Dc: . G06T9T06TE

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 5603

Prep Batch: 5603

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

| Lab Sample I | ID: MB | 880-5603/1-A |
|--------------|--------|--------------|
|--------------|--------|--------------|

Matrix: Solid

Analysis Batch: 5611

| | MB | MB | | | | | | |
|-------------------------------|--------|-----------|---------------|--------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| caso1ClOaiBl(2BaiCLs | zy0A0 | S | y0 A 0 | < BjmB | | 0KjT7jT6 6h:T9 | 0KjThjT6 68:y6 | 6 |
|)c O(v-4 E-4 60 | | | | | | | | |
| DCsl 10ai Bl (2Bai Cls)(H2 | zy0A0 | S | y0 A 0 | < BjmB | | 0KjT7jT6 6h:T9 | 0KjThjT6 68:y6 | 6 |
| 4 60-4 T8v | | | | | | | | |
| (I1OaiBl (2BaiCLs)(H24T8-47Ev | zy0A0 | S | y0 A 0 | < BjmB | | 0KjT7jT6 6h:T9 | 0KjThjT6 68:y6 | 6 |
| . oea1. Wf | zy0A0 | S | y0 A 0 | < BjmB | | 0KjT7jT6 6h:T9 | 0KjThjT6 68:y6 | 6 |
| | | | | | | | | |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 5/ | | 72 - 102 | 273 03 1 149 5 | 273 43 1 169 1 | 1 |
| o-Terphenyl | 114 | | 72 - 102 | 273 03 1 149 5 | 273 43 1 169 1 | 1 |

Lab Sample ID: LCS 880-5603/2-A

Matrix: Solid

Analysis Batch: 5611

| | Spike | LCS | LCS | | | | %Rec. | |
|------------------------|-------|----------------|-----------|--------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| caso1ClOaiBl(2BaiCLs | 6000 | 8y7 <i>A</i> T | | < BjmB | | 8y | K0 - 670 | |
|)c O(v-4 E-4 60 | | | | | | | | |
| DCsl1OaiBl(2BaiCbs)(H2 | 6000 | 988 <i>A</i> T | | < BjmB | | 99 | K0 - 670 | |
| 4 60-4 T8v | | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 55 | | 72 - 102 |
| o-Terphenyl | 111 | | 72 - 102 |

Lab Sample ID: LCSD 880-5603/3-A

Matrix: Solid

| Analysis Batch: 5611 | | | | | | | Pre | p Batch: | : 5603 |
|------------------------|-------|----------------|-----------|--------|---|------|----------|----------|--------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| caso1ClOaiBl(2BaiCLs | 6000 | 86y <i>A</i> 7 | | < BjmB | | 8T | K0 - 670 | у | T0 |
|)c O(v-4 E-4 60 | | | | | | | | | |
| DCsl1OaiBl(2BaiCbs)(H2 | 6000 | 98h A 0 | | < BjmB | | 98 | K0 - 670 | 0 | T0 |
| 4 60-4 T8v | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 57 | | 72 - 102 |
| o-Terphenyl | 125 | | 72 - 102 |

Lab Sample ID: 890-980-1 MS

| Matrix: Solid | | | | | | | | | Prep T | ype: Total/NA |
|----------------------------|----------------|-----------|-------|----------------|-----------|--------|---|------|---------------------|---------------|
| Analysis Batch: 5611 | | | | | | | | | Pre | p Batch: 5603 |
| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| caso1Cl OaiBl (2BaiCLs | zh9Æ9 | S | 999 | 8y6 A 0 | | < BjmB | | 8h | K0 ₋ 670 | |
|)c O(v-4 E-4 60 | | | | | | | | | | |
| DCsl 10ai Bl (2Bai Cbs)(H2 | zh9 A 9 | S | 999 | 9Th A 0 | | < BjmB | | 9T | K0 ₋ 670 | |
| 4 60-4 T8v | | | | | | | | | | |

G32oRCs XI i Ub, 4 a2sbag

Client Sample ID: SW02

41Cient WSt PliUA

Job ID: 890-980-6 W2orl Unit @ : / @ Gggd Si @ 6y0 t Dc: . G06T9T06TE

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

Lab Sample ID: 890-980-1 MS Client Sample ID: SW02 **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 5611**

Prep Batch: 5603

MS MS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 54 72 - 102 o-Terphenyl 120 72 - 102

Lab Sample ID: 890-980-1 MSD Client Sample ID: SW02

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5611** Prep Batch: 5603 RPD

Sample Sample Spike MSD MSD %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit zh9A9 s 99K 8h9A0 < BjmB 8h K0 - 670O TO caso1Cl OaiBl (2BaiCb)c O(v-4 E-4 60 DCsl 10ai Bl (2Bai Cb) (H2 99K 9E0A0 9E T0 zh949 S < BjmB K0 - 670h 460-4T8v

MSD MSD %Recovery Surrogate Qualifier Limits 72 - 102 1-Chlorooctane 5, 12: 72 - 102 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5608/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5616

MB MB

Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed < BjmB 4 u1b20gl zyA00 S v*A*00 0KjThjT6 T0:yT

Lab Sample ID: LCS 880-5608/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5616

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits 4 u1b20gl Ty0 TyEA6 < BjmB 60T 90 - 660

Lab Sample ID: LCSD 880-5608/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5616

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 4 u1b20gl Ty0 Ty7A9 < BjmB 60T 90 - 660

Lab Sample ID: 890-980-1 MS Client Sample ID: SW02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5616

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec

Limits 4 u1b20gl hh9 Ty6 K66AT < BjmB 60h 90 - 660

G32oRCs XI i Ub, 4 a2sbag

4 1Ci e n t WSt P li UA Job ID: 890-980-6
W2orl Uşt @::/ CB Gggd Si @6y0 t Dc:: G06T9T06TE

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-980-1 MSD

Matrix: Solid

Client Sample ID: SW02

Prep Type: Soluble

Analysis Batch: 5616

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|-------------|--------|-----------|-------|--------|-----------|--------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 4 u 1b 20gl | hh9 | | Ty6 | K6TA7 | | < BjmB | | 60y | 90 - 660 | 0 | T0 |

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QC Association Summary

Client: WSP USA Inc. Project/Site: Big Eddy Unit 150 Job ID: 890-980-1

SDG: TE012920126

GC VOA

Prep Batch: 5570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-5570/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 5575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-980-1 | SW02 | Total/NA | Solid | 8021B | 5583 |
| MB 880-5570/5-A | Method Blank | Total/NA | Solid | 8021B | 5570 |
| MB 880-5583/5-A | Method Blank | Total/NA | Solid | 8021B | 5583 |
| LCS 880-5583/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5583 |
| LCSD 880-5583/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5583 |
| 890-980-1 MS | SW02 | Total/NA | Solid | 8021B | 5583 |
| 890-980-1 MSD | SW02 | Total/NA | Solid | 8021B | 5583 |

Prep Batch: 5583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-980-1 | SW02 | Total/NA | Solid | 5035 | _ |
| MB 880-5583/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5583/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5583/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-980-1 MS | SW02 | Total/NA | Solid | 5035 | |
| 890-980-1 MSD | SW02 | Total/NA | Solid | 5035 | |

GC Semi VOA

Prep Batch: 5603

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-980-1 | SW02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-5603/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5603/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5603/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-980-1 MS | SW02 | Total/NA | Solid | 8015NM Prep | |
| 890-980-1 MSD | SW02 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5611

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-980-1 | SW02 | Total/NA | Solid | 8015B NM | 5603 |
| MB 880-5603/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5603 |
| LCS 880-5603/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5603 |
| LCSD 880-5603/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5603 |
| 890-980-1 MS | SW02 | Total/NA | Solid | 8015B NM | 5603 |
| 890-980-1 MSD | SW02 | Total/NA | Solid | 8015B NM | 5603 |

HPLC/IC

Leach Batch: 5608

| Lab Sample ID 890-980-1 | Client Sample ID SW02 | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|-----------------------------------|------------------------|----------------------|-----------------|-----------------|------------|
| MB 880-5608/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5608/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5608/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-980-1 MS | SW02 | Soluble | Solid | DI Leach | |
| 890-980-1 MSD | SW02 | Soluble | Solid | DI Leach | |

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

SDG: TE012920126

HPLC/IC

Analysis Batch: 5616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-980-1 | SW02 | Soluble | Solid | 300.0 | 5608 |
| MB 880-5608/1-A | Method Blank | Soluble | Solid | 300.0 | 5608 |
| LCS 880-5608/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5608 |
| LCSD 880-5608/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5608 |
| 890-980-1 MS | SW02 | Soluble | Solid | 300.0 | 5608 |
| 890-980-1 MSD | SW02 | Soluble | Solid | 300.0 | 5608 |

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Date Received: 07/22/21 16:31

Lab Chronicle

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Client Sample ID: SW02 Lab
Date Collected: 07/22/21 10:57

Lab Sample ID: 890-980-1

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5583 | 07/23/21 11:01 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5575 | 07/24/21 02:14 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 5603 | 07/23/21 14:29 | AJ | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 5611 | 07/24/21 19:54 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5608 | 07/23/21 16:33 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 5616 | 07/24/21 22:25 | SC | XEN MID |

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-980-6 P4o1ectrSite: j i/ BggEUnit 6d0 SDy: 5B06@006GT

Laboratory: Eurofins Xenco, Midland

Unle22 otse4h i2e notegw, II , n, IE te2 a - 4tsi2 I, bo4, to4E he4e cof e4eg vnge4e, cs , cc4egit, tionrce4tiac, tion beloh .

| Authority | | Program | Identification Number | Expiration Date |
|---|-------------|-----------------------------------|--|---------------------------|
| 5eu, 2 | | NBLAP | 560x70xx00-Q0-Q6 | 0T-30-GG |
| 5se aollohin/, n, lEte2 tse, / encEgoe2 not oa | , 00 | bvt tse I, bo4, to4Ei2 not ce4tia | ieg bEtse / of e4nin/ , vtso4tE 5si2 li2t m, | Einclyge, n, IEte2 ao4hsi |
| An, IE2i2 Metsog | P4ep Metsog | M, t4u | An, IEte | |
| 806dj NM | 806dNM P4ep | Solig | 5ot, I 5PH | |
| 80 G 6j | d03d | Solig | 5ot, I j 5BX | |

Method Summary

41Cient WSt PliUA

W2orl Unjt @ : / @ Gggd Si @ 6y0

Job ID: 890-980-6

t Dc:. G06T9T06TE

| Method | Method Description | Protocol | Laboratory |
|--------------|--|----------|------------|
| 80T6/ | Vo1ae3 O2Bai CJ4 ompoui gs (c 4) | t n 85E | XGN MID |
| 806y/ NM | DCsl 1Rai Bl O2Bai Cs (DRO) (c 4) | t n 85E | XGN MID |
| 300A0 | Pi @is, loi 4 h2omaeoB2aphd | M4 Pn n | XGN MID |
| y03y | 4 1oslgtdselm Wu28laig. 2ap | t n 85E | XGN MID |
| 806yNM W21 p | MCDol xe2uleoi | t n 85E | XGN MID |
| DI LI aUh | DI @ i @ I g n aeł 2LI aUh CB W2oU gu2 | Pt . M | XGN MID |

Protocol References:

Pt . M = Pt . M li el 2 aecoi a1

 $M4\,Pn\,\,n\,\,=\text{"MI ehogs Fo24}\,hl\,\,m\text{Cb1Pi attsC}\,\,Of\,n\,\,a\text{et}\,\,2Pi\,g\,\,n\,\,a\text{set}\,\,s",\,\,GWP-E00j5-79-0T0,\,\,Ma2Lh\,\,6983\,\,Pi\,g\,\,t\,\,ubsl\,\,qul\,\,i\,\,eRl\,\,v\text{CGOi}\,\,sA$ t n 85E = ".1 seMI ehogs Fo2Gva1uaeCBt o1Q n ase, WhdsCLa14 hI mCLa1MI ehogs", . hCQ GgCAC in, NovI mbI 2698E Pi g les Spgael sA

Laboratory References:

XGN MID = Gu2ofCs XI i Uo, MQtai g, 6T66 n AFto2Qa PvI, MQtai g, . X 79706, . GL (53T)705-y550

Gu2of@s XI i Ub, 4 a2sbag

Sample Summary

Client: WSP USA Inc.

P2orectjSite: / iB Gggd Unit 6y0

Job ID: 890-980-6

SD4: 1G06T9T06TE

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-980-6 | SW0T | Solig | 05jTTjT6 60:y5 | 05jTTjT6 6E:76 | 0 - 3 |

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| EA | BORATORIES | | Midland.TX (432-7 | 04-5440) EL Paso | TX (915)585-344 | Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (805)794-1295 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (805)794-1295 Libbo NM (575-302-7550) Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-520-2000) | | www.xenco.com Page | of _ |
|--|---|--------------------------|--|---|---------------------|---|--|--------------------------|---|
| oject Manager: | Dan Moir | 1 Indepent | Bill to: (if different) | fferent) Kyle Littrell | ittrell | | | On | 10 |
| mpany Name: | WSP USA | | Company Name: | ** | nergy | | Program: UST/PST | □RP □rownfields □RC | C Derfund |
| dress: | 3300 North A Street | | Address: | | 522 W. Mermod St. | | State of Project: | | |
| y, State ZIP: | Midland, TX 79705 | | City, State ZIP: | | Carlsbad, NM 88220 | | Reporting:Level II | PevelIII □ST/UST □ | □RP (eliv |
| one: | (432) 236-3849 | | Email: Jeremy. Hill@wsp.com, Dan. Moir@wsp.com | ill@wsp.com, Dai | n.Moir@wsp.co | B | Deliverables: EDD | ADaPT [] | Other: |
| oject Name: | Bin Fully Unit | 051 1 | Turn Around | | | ANALYSIS R | EQUEST | Wo | Work Order Notes |
| ject Number: | 50/30 | 2010 | Routine | | | | | c | |
| | | 588 HS8h | Rush: 3412 | • | | | | 10801 | 1086741001 |
| ne: | | y Hill | Due Date: 7/24/21 | (2) | | | | AF IN | THE YORK OF SCA. EXPO |
| AMPLE RECEIPT | Tei | No No | Wet loa: Yes N | 8 | | | | n 1 | |
| mperature (°C): | 9-16/9.4 | , | Thermometer ID | inera | - | 890-980 C | Chain of Custody | | |
| ceived Intact: | (3) | 1 | 18-W/W | | | | - | - | |
| mple Custody Seals: | Yes No | | Total Containers: | 200 | | | | lab, if | lab, if received by 4:30pm |
| Sample Identification | tification Matrix | Date Sampled | Time Depth | Numbe | BTEX (I | | | San | Sample Comments |
| Swaa | ٠ د | 1/4/11/1 | 1057 0-41 | - | X | | | Ce- | Ce-pest |
| / | | | | | | | | | |
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| | | | 1 | 1 | | | | | |
| | | | | | | / | | | |
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| | | | | | (| | | | |
| | | | | | | | | | |
| Total 200.7 / 6010 | otal 200.7 / 6010 200.8 / 6020: | | 8RCRA 13PPM Texas 11 A | | As Ba Be B | Sb As Ba Be B Cd Ca Cr Co Cu Fe | Fe Pb Mg Mn Mo Ni K Se Mo Ni Se Ag TI U | Ag SiO2 | Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 · Hg |
| ce: Signature of this arvice. Xenco will be | nature of this document and reiniquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. Xenco will be itable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses a | nt of samples constitu | tes a valid purchase orde | or from client compar for any losses or ex | y to Xenco, its aff | fillates and subcontractors. It a y the client if such losses are d | ce. Signature of this document and reinfiquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions ervice. 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 and the control of 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 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 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 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 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 the cost of samples and shall not assume any responsibility for any losses or expenses. | lons | |
| Relinquished by: (Signature) | | Received by: (Signature) | : (Signature) | Date | Date/Time | Relinquished by: (Signature) | | Received by: (Signature) | Date/Time |
| 1 | h | loe Lu | 1 | 7.22.2 | 1625 | | | | |
| | | | | | 4 0 | | | | |
| | | | | | | | | | Date Office Bon 2018 |

Chain of Custody Record

| | Relinquished by: | reinquisined by: | (10eCva 1.23.2 | elinguished by: | Convertable Asserted 1 II, III IV Other (specify) | Possible Hazard Identification Unconfirmed Deliverable Possible 11 III III N. Other Japania | Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory in the State of Origin listed above for analysis/tests/matrix being analyzed. The samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. | | | | | SW02 (890-980-1) | | Sample Identification - Client ID (Lab ID) | Site | Big Eddy Unit 150 | Email | 432-704-5440(Tel) | Slate, Zlp: TX, 79701 | Midland | 1211 W Florida Ave, | Eurofins Xenco | Shipping/Receiving | Client Information (Sub Contract Lab) | Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 |
|---------|------------------|------------------|----------------|--------------------|---|---|---|--|---|---|------------|------------------|----------------------------|--|--------|---------------------------|---|-------------------|--------------------------|----------------------|---------------------|--|----------------------------------|---------------------------------------|---|
| | Date/Time | Date/Time | Caterinae | | Primary Deliverable Rank 2 | 7 | LLC places the ownership atrix being analyzed the s return the signed Chain | | | | r constant | 100001 | \langle | Sample Date | SSOW# | Project #: 89000004 | WO# | PO# | | TAT Requested (days) | 7/23/2021 | | ā | Sampler | |
| | | | | Date | ble Rank 2 | | of method, an amples must bof Custody atte | | | | Mountain | 10 57 | \langle | Sample Time | | | | | | ays) | ed | | | | of Successful Manager |
| | | | | | | | alyte & accred e shipped bac esting to said c | | | M | | | Preserva | Sample Type (C=comp, G=grab) | | | | | | | | | | | 1 |
| | Company | Company | Company | | | | litation complis k to the Eurofi omplicance to | | | | Cond | Solid | Preservation Code: | (W=water S=solid. O=wasteloil, BT=Tissue, A=Atr) | | | | | | | | | Jessic Jessic | Kra | ou y |
| | Rec | Rec | Rec | Time | Specia | Sampi | ince upon out is Xenco LLC Eurofins Xenx | | | | > | 3 | | Field Filtered Perform MS/M 8015MOD_NM/8 | SD (Y | es or | No) | 7 | | 100 | | NELAP - | E-Mail Jessica kramer@eurofir | Kramer, Jessica | 1000 |
| | Received by | Received by | Received by | | Instructio | le Disposal (A f Return To Client | subcontract laboratory or LLC | | Ė | | > | < | 2 | 300_ORGFM_28 | D/DI_L | EACH | | _ | | | | Accreditations Required (See note) NELAP - Louisiana NELAP - | @eurofins | à | i e |
| | | 4 | 13 | 2 | Special Instructions/QC Requirements | Sample Disposal (A fee may be | aboratories other instruct | | | | | | | | | | | | | | Analysis | (See note) NELAP - T | set.com | | |
| | | | رے | | uirements | ay be ass | This sample s | | | | | 1 | | | | | | | | | is Requested | Texas | Ne. | Ca | |
| | | | | Method of Shipment | | assessed if samples are retained longer Disposal By Lab Archive For | hipment is for ovided. Any | | | | | | | | | | | | | | sted | | State of Origin New Mexico | Carrier Tracking No(s) | |
| | Date/Time | Date/Timb | Jate/Time/ | Shipment | | mples are | warded under changes to ac | | | | | | | | | | | | | | | | | No(s) | |
| | | - | 137 | | | retained long | r chain-of-cus creditation st | | | + | þ | > | d' | Total Number | of con | ΓX | <u></u> | | mod | | Pre | -068 # qor | Page Page | 890 | |
| | | | | | | longer than For | tody If the la | | | | | 1 | phecial | 0 | P | EDTA | lce DI Water | Amchlor | Nitric Acid | NaOH | Preservation Codes | Job #- 890-980-1 | Page 1 of 1 | COC No. 890-314 1 | |
| - Total | Company | Company | Company | | | 1 mo | boratory doe e brought to l | | | | | | epecial instructions/Note. | | | | <c-< td=""><td>05 00</td><td>P Nazi</td><td>N None</td><td>0.55</td><td></td><td></td><td></td><td>America</td></c-<> | 05 00 | P Nazi | N None | 0.55 | | | | America |
| 4 | V | Ų | Ϋ́ | | | nth) Months | s not curren Eurofins Xer | | | | | | ons/Note | | | pH 4-5 other (specify) | Acetone MCAA | S203 | Na204S Na2SO3 | None | | | | | America |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-980-6 S41 Number: DG06T9T06TE

List Source: Eurofins Xenco, Carlsbad

Login Number: 980 List Number: 1 Creator: Clifton, Cloe

| Question | Answer | Comment |
|--|--------|---------|
| D2e coolerh cu' tosd ' eylai, f re' entai' intyct. | Drue | |
| Symf le cu' tosd ' eyl' ai, f re' entayre intyct. | Drue | |
| D2e cooler or ' ymf le' so not yf f eyr to 2ype been comf romi' es or tymf eres v it2. | Drue | |
| Symf le' v ere receipes on ice. | Drue | |
| Cooler Demf eryture i' yccef tyble. | Drue | |
| Cooler Demf eryture i' recorses. | Drue | |
| CwC i' f re' ent. | Drue | |
| CwC i', illes out in inOyns lekible. | Drue | |
| CwC i', illes out vit2 yll f ertinent in,ormytion. | Drue | |
| I' t2e giels Symf lerh nyme f re' ent on CwCF | Drue | |
| D2ere yre no si' cref yncie' betv een t2e contyiner' receipes yns t2e CwC. | Drue | |
| Symf le' yre receipes v it2in ? olsink Dime He(clusink te' t' v it2 immesiyte ? D x | Drue | |
| Symf le contyiner' 2ype lekible lybel' . | Drue | |
| Contyiner' yre not bro@n or ley@nk. | Drue | |
| Symf le collection syte)time' yre f ropises. | Drue | |
| Af f rof riyte ' ymf le contyiner' yre u' es. | Drue | |
| Symf le bottle' yre comf leteld ,illes. | Drue | |
| Symf le Pre' erpytion / eri,ies. | N)A | |
| D2ere i' ' u,,icient pol. ,or yll reVue' tes ynyld' e' aincl. ynd reVue' tes q S)q S4' | Drue | |
| Contyiner' reVuirink Mero 2eys' f yce 2ype no 2eys' f yce or bubble i' | N)A | |

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-980-6

S41 Number: DG06T9T06TE

List Source: Eurofins Xenco, Midland

List Creation: 07/23/21 02:12 PM

List Number: 2 Creator: Phillips, Kerianna

Login Number: 980

| Question | Answer | Comment |
|---|--------|---------|
| D2e coolerh cu' tosd ' eylai, f re' entai' intyct. | Drue | |
| Symf le cu' tosd ' eyl' ai, f re' entayre intyct. | Drue | |
| D2e cooler or ' ymf le' so not yf f eyr to 2ype been comf romi' es or | Drue | |
| tymf eres v it2. | | |
| Symf le' v ere receipes on ice. | Drue | |
| Cooler Demf eryture i' yccef tyble. | Drue | |
| Cooler Demf eryture i' recorses. | Drue | |
| CwC i' f re' ent. | Drue | |
| CwC i', illes out in inOyns lekible. | Drue | |
| CwC i', illes out v it2 yll f ertinent in,ormytion. | Drue | |
| I' t2e giels Symf lerh nyme f re' ent on CwCF | Drue | |
| D2ere yre no si' cref yncie' betv een t2e contyiner' receipes yns t2e CwC. | Drue | |
| Symf le' yre receipes v it2in ? olsink Dime He(clusink te' t' v it2 immesiyte ? D x | Drue | |
| Symf le contyiner' 2ype lekible lybel'. | Drue | |
| Contyiner' yre not bro@en or ley@nk. | Drue | |
| Symf le collection syte)time' yre f ropises. | Drue | |
| Af f rof riyte ' ymf le contyiner' yre u' es. | Drue | |
| Symf le bottle' yre comf leteld ,illes. | Drue | |
| Symf le Pre' erpytion / eri,ies. | Drue | |
| D2ere i' 'u,,icient pol. ,or yll reVue' tes ynyld' e' aincl. ynd reVue' tes q S)q S4' | Drue | |
| Contyiner' reVuirink Mero 2eys' f yce 2ype no 2eys' f yce or bubble i' | Drue | |

Eurofins Xenco, Carlsbad

Released to Imaging: 2/28/2022 4:36:12 PM

z Emm **H6**)<"x

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-981-1

Laboratory Sample Delivery Group: TE012920126

Client Project/Site: Big Eddy Unit 150

Revision: 2

For:

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

Attn: Dan Moir

RAMPR

Authorized for release by: 8/5/2021 4:34:58 PM

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

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

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

.....LINKS **Review your project** results through Have a Question?

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Released to Imaging: 2/28/2022 4:36:12 PM

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-981-1

SDG: TE012920126

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-981-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

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) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

Job ID: 890-981-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-981-1

REVISION

The report being provided is a revision of the original report sent on 7/26/2021. The report (revision 1) is being revised due to Per client email, requesting laboratory to re-homogenize/extract and re run TPH FS23.

Report revision history

Receipt

The samples were received on 7/22/2021 4:24 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 9.4°C

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

GC Semi VOA

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

HPLC/IC

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

Client: WSP USA Inc. Job ID: 890-981-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS23

Date Collected: 07/22/21 11:38 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Lab | Samp | le ID: | 890-9 | 81-1 |
|-----|------|--------|-------|------|
| | | | | |

08/05/21 08:40 08/05/21 14:52

Matrix: Solid

| Method: 8021B - Volatile O | rganic Compo | unds (GC) | | | | | | |
|-----------------------------|--------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| Xylenes, Total | < 0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 131 | S1+ | 70 - 130 | | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 07/23/21 11:01 | 07/24/21 02:34 | 1 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 08/05/21 08:40 08/05/21 14:52 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 mg/Kg 08/05/21 08:40 08/05/21 14:52 75.3 C10-C28) OII Range Organics (Over C28-C36) 50.0 08/05/21 08:40 08/05/21 14:52 <50.0 U mg/Kg 08/05/21 08:40 08/05/21 14:52 **Total TPH** 75.3 50.0 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 94 70 - 130 08/05/21 08:40 08/05/21 14:52

| Method: 300.0 - Anions, lo | n Chromatography - Solub | le | | | | | |
|----------------------------|--------------------------|------|-------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 489 | 25.0 | mg/Kg | | | 07/24/21 22:42 | 5 |

70 - 130

98

Client Sample ID: FS17 Lab Sample ID: 890-981-2 Date Collected: 07/22/21 12:34 **Matrix: Solid**

Date Received: 07/22/21 16:24

Sample Depth: - 4

o-Terphenyl

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| Xylenes, Total | < 0.00399 | U | 0.00399 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 07/23/21 11:01 | 07/24/21 02:55 | 1 |

Sample Depth: - 4

o-Terphenyl

Client Sample Results

Client: WSP USA Inc. Job ID: 890-981-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS17 Lab Sample ID: 890-981-2

112

Matrix: Solid

07/23/21 14:29 07/24/21 21:17

Date Collected: 07/22/21 12:34 Date Received: 07/22/21 16:24

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit Prepared Dil Fac Analyzed <50.0 U 50.0 07/23/21 14:29 07/24/21 21:17 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 07/23/21 14:29 07/24/21 21:17 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/23/21 14:29 07/24/21 21:17 Total TPH <50.0 U 50.0 mg/Kg 07/23/21 14:29 07/24/21 21:17 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 95 07/23/21 14:29 07/24/21 21:17

| Method: 300.0 - Anions, Ion Ch | nromatograp | hy - Soluble | | | | | | |
|------------------------------------|-------------|--------------|------|-----|-----|----------|----------------|---------|
| Analyte | Result C | Qualifier | RL | Uni | t D | Prepared | Analyzed | Dil Fac |
| Chloride | 737 | | 50.3 | mg | Kg | | 07/24/21 22:47 | 10 |

70 - 130

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-981-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | DED4 | | nt Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|---|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-981-1 | FS23 | 131 S1+ | 107 | |
| 890-981-2 | FS17 | 120 | 104 | |
| LCS 880-5583/1-A | Lab Control Sample | 111 | 107 | |
| LCSD 880-5583/2-A | Lab Control Sample Dup | 103 | 107 | |
| MB 880-5570/5-A | Method Blank | 108 | 96 | |
| MB 880-5583/5-A | Method Blank | 106 | 93 | |
| Surrogate Legend | | | | |
| BFB = 4-Bromofluoro | benzene (Surr) | | | |
| DFBZ = 1.4-Difluorob | enzene (Surr) | | | |

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

Matrix: Solid Prep Type: Total/NA

| | | 1CO1 | OTPH1 | |
|-------------------|------------------------|----------|----------|--|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-981-1 | FS23 | 94 | 98 | |
| 890-981-2 | FS17 | 95 | 112 | |
| LCS 880-5603/2-A | Lab Control Sample | 99 | 111 | |
| LCS 880-6092/2-A | Lab Control Sample | 91 | 89 | |
| LCSD 880-5603/3-A | Lab Control Sample Dup | 97 | 109 | |
| LCSD 880-6092/3-A | Lab Control Sample Dup | 95 | 96 | |
| MB 880-5603/1-A | Method Blank | 92 | 114 | |
| MB 880-6092/1-A | Method Blank | 88 | 97 | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-981-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5570/5-A

Matrix: Solid

Analysis Batch: 5575

| Client | Sam | ole | ID: | V | leti | nod | ВІ | an | k |
|--------|-----|-----|-----|----|------|-----|------|------|---|
| | | D. | | 70 | | | 4.41 | L/KI | A |

Prep Type: Total/NA

Prep Batch: 5570

| | MB N | ИB | | | | | | |
|---------------------|------------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result C | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 U | J | 0.00200 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| Tol4ene | <0.00200 L | J | 0.00200 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| Etuylbenzene | <0.00200 L | J | 0.00200 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| m-Xylene & p-Xylene | <0.00h00 L | j | 0.00h00 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| o-Xylene | <0.00200 L | J | 0.00200 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| Xylenes, Total | <0.00h00 L | J | 0.00h00 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| Total BTEX | <0.00h00 L | j | 0.00h00 | mg/Kg | | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | 07/23/21 10:22 | 07/23/21 15:01 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 07/23/21 10:22 | 07/23/21 15:01 | 1 |

Lab Sample ID: MB 880-5583/5-A

Matrix: Solid

Analysis Batch: 5575

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

Prep Batch: 5583

| | MR MR | | | | | | |
|---------------------|------------------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |
| Tol4ene | <0.00200 U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |
| Etuylbenzene | <0.00200 U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |
| m-Xylene & p-Xylene | <0.00h00 U | 0.00h00 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |
| o-Xylene | <0.00200 U | 0.00200 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |
| Xylenes, Total | <0.00h00 U | 0.00h00 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |
| Total BTEX | <0.00h00 U | 0.00h00 | mg/Kg | | 07/23/21 11:01 | 07/2h/21 01:52 | 1 |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | 70 - 130 | 07/23/21 11:01 | 07/24/21 01:52 | 1 |
| 1.4-Difluorobenzene (Surr) | 93 | 70 - 130 | 07/23/21 11:01 | 07/24/21 01:52 | 1 |

Lab Sample ID: LCS 880-5583/1-A

Matrix: Solid

Analysis Batch: 5575

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

Prep Batch: 5583

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1022 | | mg/Kg | | 102 | 70 - 130 | |
| Tol4ene | 0.100 | 0.092h3 | | mg/Kg | | 92 | 70 - 130 | |
| Etuylbenzene | 0.100 | 0.089h0 | | mg/Kg | | 89 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1831 | | mg/Kg | | 92 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09207 | | mg/Kg | | 92 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 |

E4roRns Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-981-1 SDG: TE012920126 Project/Site: Big Eddy Unit 150

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

Lab Sample ID: LCSD 880-5583/2-A

Matrix: Solid

Analysis Batch: 5575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 5583

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit **Analyte** Benzene 0.100 0.1028 mg/Kg 103 70 - 130 1 35 Tol4ene 0.100 0.08978 mg/Kg 90 70 - 130 3 35 Etuylbenzene 0.100 0.086h5 70 - 130 mg/Kg 86 3 35 m-Xylene & p-Xylene 0.200 0.1752 70 - 130 35 mg/Kg 88 h 0.100 35 o-Xylene 0.0879h mg/Kg 88 70 - 130

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 107 | | 70 - 130 |

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

Lab Sample ID: MB 880-5603/1-A

Matrix: Solid

Analysis Batch: 5611

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

Prep Batch: 5603

MR MR

| | 1410 | 1410 | | | | | | |
|---------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Oange (rganics | <50.0 | U | 50.0 | mg/Kg | | 07/23/21 1h:29 | 07/2h/21 18:51 | 1 |
|)GO(v-C6-C10 | | | | | | | | |
| Diesel Oange (rganics)(f er | <50.0 | U | 50.0 | mg/Kg | | 07/23/21 1h:29 | 07/2h/21 18:51 | 1 |
| C10-C28v | | | | | | | | |
| (Il Oange (rganics)(f er C28-C36v | <50.0 | U | 50.0 | mg/Kg | | 07/23/21 1h:29 | 07/2h/21 18:51 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 07/23/21 1h:29 | 07/2h/21 18:51 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92 | | 70 - 130 | 07/23/21 14:29 | 07/24/21 18:51 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | 07/23/21 14:29 | 07/24/21 18:51 | 1 |

Lab Sample ID: LCS 880-5603/2-A

Matrix: Solid

Analysis Batch: 5611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5603

| | Spike | LCS | LCS | | | | %Rec. | |
|----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Oange (rganics | 1000 | 853.2 | | mg/Kg | | 85 | 70 - 130 | |
|)GO(v-C6-C10 | | | | | | | | |
| Diesel Oange (rganics)(fer | 1000 | 988.2 | | mg/Kg | | 99 | 70 - 130 | |
| C10-C28v | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualify | ier Limits |
|----------------|-------------------|------------|
| 1-Chlorooctane | 99 | 70 - 130 |
| o-Terphenyl | 111 | 70 - 130 |

Lab Sample ID: LCSD 880-5603/3-A

Matrix: Solid

Analysis Batch: 5611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 5603 RPD

LCSD LCSD %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Oange (rganics 1000 815.3 mg/Kg 82 70 - 130

)GO(v-C6-C10

E4roRns Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-981-1 SDG: TE012920126 Project/Site: Big Eddy Unit 150

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

Lab Sample ID: LCSD 880-5603/3-A

Matrix: Solid Analysis Batch: 5611 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 5603

LCSD LCSD **RPD** Spike %Rec. Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Oange (rganics)(fer 1000 98h 0 mg/Kg 98 70 - 130 0 20

C10-C28v

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 97 | | 70 - 130 |
| o-Terphenyl | 109 | | 70 - 130 |

Lab Sample ID: MB 880-6092/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 6104

Prep Type: Total/NA Prep Batch: 6092

MB MB Result Qualifier RL Unit Dil Fac **Analyte** Prepared **Analyzed** Gasoline Oange (rganics <50.0 U 50.0 08/05/21 08:h0 08/05/21 12:50 mg/Kg)GO(v-C6-C10 08/05/21 08:h0 08/05/21 12:50 Diesel Oange (rganics)(fer <50.0 U 50.0 mg/Kg C10-C28v (Il Oange (rganics)(fer C28-C36v <50.0 U 50.0 mg/Kg 08/05/21 08:h0 08/05/21 12:50

MB MB

<50.0 U

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88 | | 70 - 130 | 08/05/21 08:40 | 08/05/21 12:50 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | 08/05/21 08:40 | 08/05/21 12:50 | 1 |

50.0

mg/Kg

Lab Sample ID: LCS 880-6092/2-A

Matrix: Solid

Total TPH

Analysis Batch: 6104

Client Sample ID: Lab Control Sample

08/05/21 08:h0 08/05/21 12:50

Prep Type: Total/NA

Prep Batch: 6092

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Oange (rganics 1000 918.h 92 70 - 130 mg/Kg)GO(v-C6-C10 Diesel Oange (rganics)(fer 1000 870.h mg/Kg 70 - 130

C10-C28v

Matrix: Solid

Analysis Batch: 6104

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 91 | 70 - 130 |
| o-Terphenyl | 89 | 70 - 130 |

Lab Sample ID: LCSD 880-6092/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6092

LCSD LCSD **RPD** Spike %Rec. Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 1000 869.5 70 - 130 Gasoline Oange (rganics mg/Kg 87 5 20)GO(v-C6-C10 1000 Diesel Oange (rganics)(fer 931.5 mg/Kg 93 70 - 130 20

C10-C28v

LCSD LCSD

Limits Surrogate %Recovery Qualifier 1-Chlorooctane 70 - 130 95

E4roRns Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-981-1 SDG: TE012920126 Project/Site: Big Eddy Unit 150

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

Lab Sample ID: LCSD 880-6092/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6104** Prep Batch: 6092

LCSD LCSD

%Recovery Qualifier Surrogate Limits o-Terphenyl 96 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5608/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5616 MB MB

Result Qualifier Analyte RL Unit **Prepared Analyzed** Dil Fac Culoride <5.00 U 5.00 07/2h/21 20:52 mg/Kg

Lab Sample ID: LCS 880-5608/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5616

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 250 Culoride 256.1 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-5608/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5616

LCSD LCSD **RPD** Spike %Rec. Added Limits **Analyte** Result Qualifier Unit D %Rec RPD Limit Culoride 250 253.9 102 90 - 110 20 mg/Kg

E4roRns Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

GC VOA

| Prep Batch: 55 | 70 |
|----------------|----|
|----------------|----|

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-5570/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 5575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-981-1 | FS23 | Total/NA | Solid | 8021B | 5583 |
| 890-981-2 | FS17 | Total/NA | Solid | 8021B | 5583 |
| MB 880-5570/5-A | Method Blank | Total/NA | Solid | 8021B | 5570 |
| MB 880-5583/5-A | Method Blank | Total/NA | Solid | 8021B | 5583 |
| LCS 880-5583/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5583 |
| LCSD 880-5583/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5583 |

Prep Batch: 5583

| Lab Sample ID 890-981-1 | Client Sample ID FS23 | Prep Type Total/NA | Matrix Solid | Method 5035 | Prep Batch |
|----------------------------|------------------------|--------------------|-----------------|-------------|------------|
| 890-981-2 | FS17 | Total/NA | Solid | 5035 | |
| MB 880-5583/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5583/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5583/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

GC Semi VOA

Prep Batch: 5603

| Lab Sample ID 890-981-2 | Client Sample ID FS17 | Prep Type Total/NA | Matrix Solid | Method 8015NM Prep | Prep Batch |
|-----------------------------------|------------------------|--------------------|-----------------|-----------------------|------------|
| MB 880-5603/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5603/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5603/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5611

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-981-2 | FS17 | Total/NA | Solid | 8015B NM | 5603 |
| MB 880-5603/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5603 |
| LCS 880-5603/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5603 |
| LCSD 880-5603/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5603 |

Prep Batch: 6092

| Lab Sample ID 890-981-1 | Client Sample ID FS23 | Prep Type Total/NA | Matrix Solid | Method 8015NM Prep | Prep Batch |
|-----------------------------------|--------------------------|--------------------|--------------|-----------------------|------------|
| MB 880-6092/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-6092/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-6092/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 6104

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-981-1 | FS23 | Total/NA | Solid | 8015B NM | 6092 |
| MB 880-6092/1-A | Method Blank | Total/NA | Solid | 8015B NM | 6092 |
| LCS 880-6092/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 6092 |
| LCSD 880-6092/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 6092 |

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

HPLC/IC

Leach Batch: 5608

| Lab Sample ID 890-981-1 | Client Sample ID FS23 | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|-----------------------------------|------------------------|-------------------|-----------------|-----------------|------------|
| 890-981-2 | FS17 | Soluble | Solid | DI Leach | |
| MB 880-5608/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5608/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5608/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 5616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-981-1 | FS23 | Soluble | Solid | 300.0 | 5608 |
| 890-981-2 | FS17 | Soluble | Solid | 300.0 | 5608 |
| MB 880-5608/1-A | Method Blank | Soluble | Solid | 300.0 | 5608 |
| LCS 880-5608/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5608 |
| LCSD 880-5608/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5608 |

Eurofins Xenco, Carlsbad

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Lab Chronicle

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

Client Sample ID: FS23

Lab Sample ID: 890-981-1

Matrix: Solid

Date Collected: 07/22/21 11:38 Date Received: 07/22/21 16:24

Client Sample ID: FS17

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5583 | 07/23/21 11:01 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5575 | 07/24/21 02:34 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 6092 | 08/05/21 08:40 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 6104 | 08/05/21 14:52 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5608 | 07/23/21 16:33 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | 5616 | 07/24/21 22:42 | SC | XEN MID |

Lab Sample ID: 890-981-2

Matrix: Solid

Date Collected: 07/22/21 12:34 Date Received: 07/22/21 16:24

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5583 | 07/23/21 11:01 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5575 | 07/24/21 02:55 | KL | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 5603 | 07/23/21 14:29 | AJ | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 5611 | 07/24/21 21:17 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5608 | 07/23/21 16:33 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | 5616 | 07/24/21 22:47 | 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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Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

Laboratory: Eurofins Xenco, Midland

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

| Authority | | rogram | Identification Number | Expiration Date |
|--|-----------------------------------|------------------------------|---|---|
| Texas | N | ELAP | T104704400-20-21 | 06-30-22 |
| The following analyte: | s are included in this rep | ort, but the laboratory is r | not certified by the governing authority. | This list may include analytes for what |
| the agency does not | offer certification. | • | | The not may more an arytic to the |
| the agency does not of Analysis Method | offer certification. Prep Method | Matrix | Analyte | |
| 0 , | | • | , , , | |

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Method Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-981-1

SDG: TE012920126

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-981-1 | FS23 | Solid | 07/22/21 11:38 | 07/22/21 16:24 | - 4 |
| 890-981-2 | FS17 | Solid | 07/22/21 12:34 | 07/22/21 16:24 | - 4 |

| roject Manager: Dan Sompany Name: WSF State ZIP: Midla Midla Mone: (432) roject Number: (432) roject Number: Zagampler's Name: Zagampler's Name: | Moir No | 14. 62. 4 | Houston,TX Midland,T. bbs,NM (575-392-75 Bil Cc Ad Cci Ad Cri Routine % \$ Rush: Due Dat | Chain of Cus louston,TX (281) 240-4200 Dallas,TX (214) 902-0300 Sa Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 S75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (7 Bill to: (if different) Kyle Littrell Company Name: XTO Energy Address: XTO Energy Address: S22 W. Mermod St. City, State ZIP: Carlsbad, NM 88220 Email: Jeremy,Hill@wsp.com, Dan,Moir@wsp.com Turn Around Routine Rush: 34 H- Due Date: \$1/14/3/ | Ch. (480.3 AZ (480.3 Ky)) Ky (52 Com., 152 Com., 152 Com. | hain of Cu llas,TX (214) 902-0300 L Paso,TX (915)565-34 0-355-0900) Atlanta,GA Kyle Littrell XTO Energy S22 W. Mermod St. Carlsbad, NM 88220 m, Dan Moir@wsp.cc | of (915)58 (915)58 (916) Atlant | Chain of Custody | 194-1296 194 | | ww.xenco.com Page of work Order Comments Work Order Comments Prownfields RC Perfund |
|--|--|--|--|---|---|---|--|---|--|---|---|
| 22 | 36 | 94 6548 my Hill | | Date: \$1144X | | 32.23 | | | | | |
| SAMPLE RECEIPT emperature (°C): | Temp Blank(9-14/9-4 | ank Yes No | | Yes) No | ners | - | Ý | 890-981 | 31 Chain of Custody | | - |
| color Custody Seals: | Yes No N | /A | Correction Factor | 8 | | 800 | 1 / 13 1 | - | | | |
| ample Custody Seals: | Z. | | Total Containers: | | | | | | | | - |
| Sample Identification | | Matrix Date Sampled | Time d Sampled | Depth | Numbe | TPH (EF | Chlorid | | | | |
| F533 | 5 | | \vdash | 141 | | 1 | , | | | | |
| 13 Ja | 517 | 5 7/22/21 | | 4, | ** | × | X | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | 200.8 / 6020: nd Metal(s) to be | : analyzed | BRCRA 13F | RCRA 13PPM Texas 11 A | | Al Sb As | Ba Be B Ba Be Cd | 3 Cd Ca Cr Co Cu d Cr Co Cu Pb Mr | Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Ni K Se Ag | SiO2 Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 · Hg |
| xica: Signature of this document and retinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors 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 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 | rent and rennquishmonth only for the cost of s | ent of samples co samples and shall ed to each project | nstitutes a valid pu not assume any re t and a charge of \$ | urchase order fron esponsibility for a | n client co ny losses o submitted | mpany to or expens to Xence | Xenco, ses incur o, but no | affiliates and subcontrac by the client if such loss alyzed. These terms will | tors, it assigns standard terms and conditions ses are due to circumstances beyond the control be enforced unless previously negotiated. | rms and conditions i beyond the control ily negotiated. | |
| Relinquished by: (Signature) | gnature) | Receive | Received by: (Signature) | ıre) | D | Date/Time | ne | Relinquished by: | y: (Signature) | Received by: (Signature) | Signati |
| 2/10 | 7 | loe C | £ | | 7:2 | 50 | 11/10 | 4 | | | |
| | | | | | | | | 6 | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-981-1

SDG Number: TE012920126

List Source: Eurofins Xenco, Carlsbad

Login Number: 981 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-981-1 SDG Number: TE012920126

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 07/23/21 02:11 PM

Creator: Phillips, Kerianna

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

Eurofins Xenco, Carlsbad
Page 20 of 20

Released to Imaging: 2/28/2022 4:36:12 PM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-982-1

Laboratory Sample Delivery Group: TE012920126

Client Project/Site: Big Eddy Unit 150

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 7/26/2021 5:45:05 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 2/28/2022 4:36:12 PM

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

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

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Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-982-1

SDG: TE012920126

Table of Contents

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| QC Association Summary | 14 |
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Definitions/Glossary

 I ient V.WS PU APc It . G
 Job ID: 890-981-C

 Urojn. WP MY: Beg 2ddy At MC50
 PDT: E20C1910C16

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Qualifiers

GC VOA

Qualifier Qualifier Description

A It de a\Ws \Wn at aiy\W was at aiyznd for bu\W o\Wn\W. \WdG

GC Semi VOA

Qualifier Qualifier Description

A It de a\text{VN} at aiy\text{VV} was at aiyznd for bu\text{VV} o\text{Vd} n\text{VV}. \text{VVdG}

HPLC/IC

Qualifier Qualifier Description

A It de a Ws Who at aiy W was at aiyznd for bu W o Wdn W. WdG

Glossary

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

¤ LesWord ut dnr Whn "D". oiumt Wordnsegta WorWhn rnsuiWes rnpor Whold ot a dry wnegh Wbases

%R Unr. nt WRn. ovnry
I FL I ot Valets Frnn Lequed
I FA I oiot y Formet g At avV
I NF I ot Valets No Frnn Lequed

D2R Dupie aWV2rror RaWb (t ormaicand absoiuWV deffnrnt.n)

Deir Fa. Deiu West Fa. Wor

DL Dn\r\r\rangle

DL, Rc, R2, IN It de a Ws a Déu Wot, Rn-at aiyses, Rn-nx Wa. Wot, or addéwot ai It éveti mn Wars/at eot at aiyses of Wn sampin

DLI Dn. seet Lnvnil ot.ntWaNeot (Radeo.hnmssWy)

 2 DL
 2 s Verha Wrd Dn Wr. Vebt Leme V(Debxet)

 LOD
 Leme Vof Dn Wr. Vebt (DoD/DO2)

 LOQ
 Leme Vof Quat Vebb Vebt (DoD/DO2)

MIL 2 Uc rn. ommnt dnd "Maxemum I ot Warmet at WLnvni"

MDc Met emum DnWr. Varbin c . Varbelly (Radeo. hnmes Wry)

MDI Met emum DnWr. Varbin I ot . nt Wel Webt (Radeo. hnmes Wry)

 MDL
 Mn/Wod DnW/. Wat Leene/V

 ML
 Met emum Lnvni (Deoxet)

 MUN
 MosVWrobabin Numbnr

 MQL
 Mn/Wod Quat Wat Leene/W

NI NoW ai. uia Wd

ND NoWDn\f\vert \text{. Wdd aV\f\f\n rnpor\f\\eta g iem\eta\f\\f\or MDL or 2DL \eta showt)

N2T Nnga\delta / c bsnt W UOP Uos\delta / n / Urnsnt W

UQL Ura. Wayai Quat Wada Magot Leemely

UR2P Urnsump\&/n QI Quai&\(\frac{1}{2}\)/I ot \(\frac{1}{2}\)/ot

R2R Rnia\\(\text{Rm} \text{rror Ra\(\text{Mo} \) (Rad\(\text{ep} \). \\ \text{hnm\(\text{es} \) \\ \\ \text{VIV})

RL RnporVMg LemeVfor RnqunsVMd LemeV(Radeo. hnmesVfy)

RUD Rnial&m Unr. nt WDeffnrnt . n, a mnasurn of \mathbb{\text{W}}n rnial\mathbb{\text{m}} n deffnrnt . n bn\mathbb{\text{W}}nnt \mathbb{\text{W}} o poet \mathbb{\text{V}}

E2F Eoxe eN/2 quevaint WFa. Wor (Deoxet)
E2Q Eoxe eN/2 quevaint WQuo Went W(Deoxet)

ENEI Eoo Numnrous Eo I out W

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Case Narrative

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-982-1 SDG: TE012920126

Job ID: 890-982-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-982-1

Receipt

The samples were received on 7/22/2021 4:24 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 9.4°C

GC VOA

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

GC Semi VOA

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

HPI C/IC

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

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Client Sample Results

1 Cent WS PWU leAc

S2ori AnjWni:/IBTggdPeln4y0

Client Sample ID: SW06

Job ID: 890-986-4 WD.: GT04696046E

Lab Sample ID: 890-982-1

Matrix: Solid

Date Collected: 07/22/21 07:42 Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|-----------------------|--------------------------------|----------------------------|----------|--|---|---------|
| / i e5i ei | z0@0606 | P | 0@0606 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| CoQi ei | z0@0606 | Р | 0@0606 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| Trhd®ie5iei | z0@0606 | Р | 0@0606 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| <-XdCei & p-XdCei | z0@0307 | Р | 0@0307 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| o-Xd©ei | z0@0606 | Р | 0@0606 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| XdCeis, ConaC | z0@0307 | Р | 0@0307 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| Gona C'GTX | z0@0307 | Р | 0@0307 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:4y | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | 10- | | | 763 03 1 11:71 | 763 43 1 70:19 | 1 |
| 4-Bromofluorobenzene (Surr) | 112 | | 67 - 107 | | | 703 03 1 11.71 | 103 43 1 10.13 | , |
| 154-, Buorobenzene (Surr) | 177 | - 0. (0.0) | 67 - 107 67 - 107 | | | 763 03 1 11:71 | 763 43 1 70:19 | • |
| (/ | 177 ge Organics (DI | RO) (GC) Qualifier | | Unit | D | | | 1 |
| 154-, Buorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi O2BaelAs | 177 ge Organics (DI | Qualifier | 67 - 107 | Unit < BjmB | <u>D</u> | 763 03 1 11:71 | 763' 43' 1 70:19 | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi O2BaelAs (. RO)-1 E-1 40 Dli si CRaeBi O2BaelAs (Ovi 2 | ge Organics (DI Result | Qualifier P | 67 - 107 | | <u>D</u> | 763 03 1 11:71 Prepared | 763 43 1 70:19 Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi O2BaelAs (. RO)-1 E-140 | ge Organics (DI Result zy0d) | Qualifier P | 67 - 107 RL y0@ | < BjmB | <u>D</u> | 763 03 1 11:71 Prepared 0Kj67j64 43:69 | 763 43 1 70:19 Analyzed 0Kj63j64 64:78 | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi O2BaelAs (. RO)-1E-140 Dli si CRaeBi O2BaelAs (Ovi 2 140-168) | ge Organics (DI Result zy000 zy000 | Qualifier P P | 67 - 107 RL y0@ y0@ | < BjmB | <u>D</u> | Prepared 0Kj67j64 43:69 0Kj67j64 43:69 | Analyzed 0kg63j64 64:78 | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi O2BaelAs (. RO)-1 E-140 Dli si CRaeBi O2BaelAs (Ovi 2 140-168) OICRaeBi O2BaelAs (Ovi 2168-17E) | ge Organics (DI Result zy00 zy00 zy00 | Qualifier P P P | 67 - 107 RL y0:0 y0:0 y0:0 | < BjmB < BjmB < BjmB | <u>D</u> | Prepared 0Kj67j64 43:69 0Kj67j64 43:69 | Analyzed OKj63j64 64:78 OKj63j64 64:78 | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi O2BaelAs (. RO)-1 E-140 Dli si CRaeBi O2BaelAs (Ovi 2 140-168) OICRaeBi O2BaelAs (Ovi 2168-17E) GDraCGSH | ge Organics (DI Result zy00 zy00 zy00 zy00 | Qualifier P P P | RL y0d0 y0d0 y0d0 y0d0 | < BjmB < BjmB < BjmB | <u>D</u> | Prepared 0Kj67j64 43:69 0Kj67j64 43:69 0Kj67j64 43:69 0Kj67j64 43:69 | Analyzed OKj63j64 64:78 OKj63j64 64:78 OKj63j64 64:78 | Dil Fac |

Client Sample ID: SW04 Lab Sample ID: 890-982-2

RL

y@7

Result Qualifier

407

Date Collected: 07/22/21 08:01 **Matrix: Solid**

Unit

< BjmB

D

Prepared

Analyzed

0Kj63j64 67:03

Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

Analyte

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--------|---|------------------|----------------|---------|
| / i e5i ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | |
| GoQi ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | 2 |
| Trhd©i e5i ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | 2 |
| <-XdCei & p-XdCei | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | 4 |
| o-Xd©ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | 2 |
| Xd©eis, GonaC | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | 4 |
| Gora C GTX | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:7E | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 114 | | 67 - 107 | | | 763' 03' 1 11:71 | 763 43 1 70:0y | 1 |
| 154-, Bluorobenzene (Surr) | 177 | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 70:0v | 1 |

Dil Fac

Client Sample Results

1 Cent WS PWU leAc

S2ori AnjWni:/IBTggdPeln4y0

WD.: GT04696046E

Lab Sample ID: 890-982-2

Matrix: Solid

Job ID: 890-986-4

Client Sample ID: SW04 Date Collected: 07/22/21 08:01

Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------------|-----------|----------|--------|---|-----------------|---------------------------------|---------|
| . aso@ei RaeBi O2BaelAs | zy0@ | P | y0@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 64:y9 | 4 |
| (. RO)-1 E-1 40 | | | | | | | | |
| Dli si CRaeBi O2BaelAs (Ovi 2 | zy0@ | Р | у0Ф | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 64:y9 | 4 |
| 1 40-1 68) | | | | | | | | |
| OICRaeBi O2BaelAs (Ovi 2168-17E) | zy0@ | Р | y0@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 64:y9 | 4 |
| Gora CCSH | zy0d0 | Р | y0@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 64:y9 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i 8lorooŒrne | t 9 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / 1:9t | 1 |
| o-aerT8enpl | 114 | | 67 - 107 | | | 763 03 1 14:/ t | 76 3 4 3 1 / 1:9t | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 521 | | 6yc7 | < BjmB | | | 0Kj63j64 67:09 | |

Client Sample ID: SW03 Lab Sample ID: 890-982-3 Matrix: Solid

Date Collected: 07/22/21 08:04 Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--------|---|----------------|--------------------------------|---------|
| / i e5i ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| CoQi ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| Tmldobie5iei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| <-XdCei & p-XdCei | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| o-Xd©ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| XdCeis, GonaC | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| Gona C GTX | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 07:yE | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 70:9y | 1 |
| 154-, 🗗 uorobenzene (Surr) | t 9 | | 67 - 107 | | | 763 03 1 11:71 | 76 3 4 3 1 70:9y | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|-----------|---------------|--------|---|-----------------|-------------------|---------|
| . asotei RaeBi O2BaelAs | zy0d0 | P | y0d0 | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:60 | 4 |
| (. RO)-1 E-1 40 | | | | | | | | |
| Dli si CRaeBi O2BaelAs (Ovi 2 | zy0d0 | Р | y0 c 0 | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:60 | 4 |
| 1 40-1 68) | | | | | | | | |
| OlCRaeBi O2BaelAs (Ovi 2168-17E) | zy0@ | Р | y0œ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:60 | 4 |
| Gora CGSH | zy0@ | Р | y0@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:60 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i 8lorooOtcne | 179 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / / :/ 7 | 1 |
| o-aerT8enpl | 1/9 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / / :/ 7 | 1 |

| Method: 300.0 - Anions, Ion Chroma | tography - Soluble | | | | | | |
|------------------------------------|--------------------|------|--------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 411 | 3.9K | < BjmB | | | 0Kj63j64 67:4y | 4 |

Tu2ofles Xi eAo, 1 a2Sbag

Matrix: Solid

Client Sample Results

1 Cent WS PWU leAc

S2ori AnjWni:/IBTggdPeln4y0

Job ID: 890-986-4 WD.: GT04696046E

Lab Sample ID: 890-982-4

Client Sample ID: SW09 Date Collected: 07/22/21 09:15 Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--------|---|------------------|----------------------------|---------|
| / i e5i ei | z0@0499 | P | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| GoQi ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| Trhd®i e5i ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| <-XdCei & p-XdCei | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| o-Xd©ei | z0@0499 | Р | 0@0499 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| Xd©eis, GonaC | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| Gora C GTX | z0@0798 | Р | 0@0798 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:4E | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 17t | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 74:1y | 1 |
| 154-, Bluorobenzene (Surr) | t 2 | | 67 - 107 | | | 763' 03' 1 11:71 | 763 43 1 74:1 _V | 1 |

| Method: 8015B NM - Diesel Rang | , , | , , , | | | | | | |
|----------------------------------|-----------|-----------|----------|--------|---|-----------------|------------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| . aso@ei RaeBi O2BaelAs | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:34 | 4 |
| (. RO)-1 E-1 40 | | | | | | | | |
| Dli si CRaeBi O2BaelAs (Ovi 2 | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:34 | 4 |
| 1 40-1 68) | | | | | | | | |
| OICRaeBi O2BaelAs (Ovi 2168-17E) | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:34 | 4 |
| Gora CGSH | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 66:34 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i 8lorooŒne | 171 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / / :41 | 1 |
| o-aerT8enpl | 1// | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / / :41 | 1 |

| | Method: 300.0 - Anions, Ion Chrom | natography - So | oluble | | | | | |
|---|-----------------------------------|-----------------|-------------|----------|---|----------|----------------|---------|
| | Analyte | Result Q | Qualifier R | _ Unit | D | Prepared | Analyzed | Dil Fac |
| Į | Chloride | 438 | 309 | S < BjmB | | | 0Kj63j64 67:60 | 4 |

Client Sample ID: SW08 Date Collected: 07/22/21 10:28

Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|--------|---|----------------|----------------|---------|
| / i e5i ei | z0@0604 | Р | 0@0604 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| GoQi ei | z0@0604 | Р | 0@0604 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| Trhd®i e5i ei | z0@0604 | Р | 0@0604 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| <-XdCei & p-XdCei | z0@0306 | Р | 0@0306 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| o-Xd©ei | z0@0604 | Р | 0@0604 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| Xd©eis, GonaC | z0@0306 | Р | 0@0306 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| Gora C GTX | z0@0306 | Р | 0@0306 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:7K | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 17t | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 74:06 | 1 |
| 154-, Bluorobenzene (Surr) | t y | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 74:06 | 1 |

Lab Sample ID: 890-982-5

Matrix: Solid

Client Sample Results

1 Clent WS PWU leAc

S2ori ArjWri: / IB Tggd Peln4y0

Job ID: 890-986-4 WD.: GT04696046E

Client Sample ID: SW08

Date Collected: 07/22/21 10:28

Date Received: 07/22/21 16:24

Lab Sample ID: 890-982-5

Matrix: Solid

Sample Depth: 0 - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------------|-----------|----------|--------|---|-----------------|-----------------|---------|
| . asotei RaeBi O2BaelAs | z39c9 | P | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:06 | 4 |
| (. RO)-1 E-1 40 | | | | | | | | |
| Dli si CRaeBi O2BaelAs (Ovi 2 | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:06 | 4 |
| 1 40-1 68) | | | | | | | | |
| OlCRaeBi O2BaelAs (Ovi 2168-17E) | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:06 | 4 |
| Gora CGSH | z39@ | Р | 39@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:06 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i 8lorooŒcne | t y | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / 0:7/ | 1 |
| o-aerT8enpl | 119 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / 0:7/ | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 37.3 | | 3@9 | < BjmB | | | 0Kj63j64 67:6E | |

Client Sample ID: SW07 Lab Sample ID: 890-982-6

Date Collected: 07/21/21 14:26 Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|------------------|-----------|----------|--------|---|----------------|----------------|---------|
| / i e5i ei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| GoQi ei | z0@0600 | Р | 000600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| Trhd®i e5i ei | z0@0600 | Р | 000600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| <-Xd€ei & p-Xd€ei | z0@0300 | Р | 0@0300 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| o-XdCei | z0@0600 | Р | 000600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| XdCeis, GonaC | z0@0300 | Р | 0@0300 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| ComaC GTX | z0@0300 | Р | 0@0300 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 03:yK | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 74:96 | 1 |
| 154-, B luorobenzene (Surr) | t 9 | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 74:96 | 1 |
| - Method: 8015B NM - Diesel Ra | ange Organics (D | RO) (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| asofiai RaeBi O2BaelAs | | P | v0m | < RimR | | 0Ki67i64 43:69 | 0Ki63i64 67:66 | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|-----------|---------------|--------|---|-----------------|-----------------|---------|
| . aso@ei RaeBi O2BaelAs | zy0d0 | P | y0d0 | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:66 | 4 |
| (. RO)-1 E-1 40 | | | | | | | | |
| Dli si CRaeBi O2BaelAs (Ovi 2 | zy0d | Р | y0 c 0 | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:66 | 4 |
| 1 40-1 68) | | | | | | | | |
| OlCRaeBi O2BaelAs (Ovi 2168-17E) | zy0d0 | Р | y0œ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:66 | 4 |
| GoraCGSH | zy0@ | Р | y0@ | < BjmB | | 0Kj67j64 43:69 | 0Kj63j64 67:66 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i 8lorooŒcne | t 0 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / 0:// | 1 |
| o-aerT8enpl | 117 | | 67 - 107 | | | 763 03 1 14:/ t | 763 43 1 / 0:// | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Dil Fac RLUnit Analyzed Prepared 3@9 < BjmB 0Kj63j64 67:74 Chloride 375

Tu2ofles Xi eAo, 1 a2Sbag

Matrix: Solid

Client Sample Results

1 Cent WS PWU leAc

S2ori AnjWni:/IBTggdPeln4y0

Job ID: 890-986-4 WD.: GT04696046E

Lab Sample ID: 890-982-7

Client Sample ID: SW01

Date Collected: 07/21/21 07:57 Date Received: 07/22/21 16:24

Sample Depth: 0 - 4

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|---------------------------|--|----------------------------|----------|---|---|---------------------------|
| / i e5i ei | z0@0600 | P | 0@0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| GoQiei | z0@0600 | P | 0ൻ0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| TmldoGie5iei | z0@0600 | Р | 0ф0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| < -XdCei & p-XdCei | z0@0304 | Р | 0ф0304 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| o-Xd © ei | z0@0600 | Р | 0ф0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| Xd©eis, GomaC | z0@0304 | P | 0ф0304 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| Gora O'GTX | z0@0304 | Р | 0@0304 | < BjmB | | 0Kj67j64 44:04 | 0Kj63j64 0y:48 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 179 | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 79:12 | 1 |
| 154-, Duorobenzene (Surr) | t 2 | | 67 - 107 | | | 763 03 1 11:71 | 763 43 1 79:12 | 1 |
| | | | <i>G 10.</i> | | | | | |
| Method: 8015B NM - Diesel Rang | ge Organics (DI | RO) (GC) Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte . asotei RaeBi O2BaelAs | ge Organics (DI | Qualifier | | Unit < BjmB | <u>D</u> | Prepared 0Kj67j64 43:69 | Analyzed 0Kj63j64 67:37 | |
| Method: 8015B NM - Diesel Rang Analyte aso@i RaeBi O2BaelAs (. RO)-1 E-140 Diesel Range Organics (Over | ge Organics (DI | Qualifier | RL | | <u>D</u> | | | 4 |
| Method: 8015B NM - Diesel Rang Analyte aso@i RaeBi OæaelAs (. RO)-1 E-1 40 Diesel Range Organics (Over C10-C28) | ge Organics (DI Result z39ø | Qualifier P | RL 39@ | < BjmB | <u>D</u> | 0Kj67j64 43:69 | 0Kj63j64 67:37 | 4 |
| Method: 8015B NM - Diesel Rang Analyte aso@ei RaeBi O2BaelAs . RO)-1E-140 Diesel Range Organics (Over C10-C28) DICRaeBi O2BaelAs (Ovi 2168-17E) | ge Organics (DI Result z39:9 | Qualifier P | RL 39:9 | < BjmB | <u>D</u> | 0Kj67j64 43:69 0Kj67j64 43:69 | 0Kj63j64 67:37 0Kj63j64 67:37 | 4 |
| Method: 8015B NM - Diesel Rang Analyte aso@ei RaeBi O2BaelAs (. RO)-1E-140 Diesel Range Organics (Over C10-C28) OICRaeBi O2BaelAs (Ovi 2168-17E) Total TPH | ge Organics (DI Result 2390) 86.3 | Qualifier P | RL 39:9 39:9 39:9 | < BjmB < BjmB < BjmB | <u>D</u> | 0lý67j64 43:69 0lý67j64 43:69 0lý67j64 43:69 | 0Қ63ј64 67:37 0Қ63ј64 67:37 0Қ63ј64 67:37 | 4 |
| Method: 8015B NM - Diesel Rang Analyte aso@ei RaeBi O2BaelAs (. RO)-1E-140 Diesel Range Organics (Over C10-C28) OICRaeBi O2BaelAs (Ovi 2168-17E) Total TPH Surrogate | ge Organics (DI Result z39:0) 86.3 239:0 86.3 | Qualifier P | RL 39:9 39:9 39:9 39:9 | < BjmB < BjmB < BjmB | <u>D</u> | 0Қ67ј64 43:69 0Қ67ј64 43:69 0Қ67ј64 43:69 0Қ67ј64 43:69 | 0\(\beta\)63\(\beta\)64\(\delta\)7:37 0\(\beta\)63\(\beta\)64\(\delta\)7:37 0\(\beta\)63\(\beta\)64\(\delta\)7:37 | 4 |
| Method: 8015B NM - Diesel Rang Analyte . aso@i RaeBi OZaelAs (. RO)-1 E-140 Diesel Range Organics (Over C10-C28) OICRaeBi OZaelAs (Ovi 2168-17E) Total TPH Surrogate 1-i 8lorooOcne | ge Organics (DI Result 2390) 86.3 2390 86.3 2390 86.3 | Qualifier P | RL 39:9 39:9 39:9 39:9 <i>Limits</i> | < BjmB < BjmB < BjmB | <u> </u> | 0Қ67ј64 43:69 0Қ67ј64 43:69 0Қ67ј64 43:69 0Қ67ј64 43:69 <i>Prepared</i> | 0қ63ј64 67:37 0қ63ј64 67:37 0қ63ј64 67:37 0қ63ј64 67:37 <i>Analyzed</i> | 4 4 4 Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte | ge Organics (DI Result 2390) 86.3 2390 86.3 %Recovery 6 6 11y | Qualifier P P Qualifier | RL 39:9 39:9 39:9 39:9 Limits 67 - 107 | < BjmB < BjmB < BjmB | <u>D</u> | 0Kj67j64 43:69 0Kj67j64 43:69 0Kj67j64 43:69 0Kj67j64 43:69 Prepared 763 03 1 14:/ t | 0kj63j64 67:37 0kj63j64 67:37 0kj63j64 67:37 0kj63j64 67:37 0kj63j64 67:37 Analyzed 763'43'1/0:40 | Dil Fac 4 4 4 Dil Fac |

317

< BjmB

0Kj63j64 67:7E

Released to Imaging: 2/28/2022 4:36:12 PM

Surrogate Summary

1 Cent WS PWU leAc Job ID: 890-986-4 S2ori AnjWni:/IBTggdPeln4y0 WD.: GT04696046E

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| _ | | | | Percent Surroga |
|---|------------------------|----------|----------|-----------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-986-4 | Wt 0E | 448 | 400 | |
| 890-986-6 | Wt 05 | 445 | 400 | |
| 890-986-7 | Wt 07 | 46E | 9у | |
| 890-986-5 | Wt 09 | 409 | 98 | |
| 890-986-y | Wt 08 | 409 | 9E | |
| 890-986-E | Wt OM | 440 | 9у | |
| 890-986-M | Wt 04 | 40y | 98 | |
| L1 W880-yy87j4-U | Lab 1 oer2oOVamp€ | 444 | 40M | |
| L1 WD 880-yy87j6-U | Lab 1 oer2oO\/amp@ Dup | 407 | 40M | |
| h / 880-yyM0jy-U | hinkog/QaeF | 408 | 9E | |
| h / 880-yy87jy-U | h i rkog / @eF | 40E | 97 | |
| Surrogate Legend / =/ f 5-/ 2omoz0o2obi | e(iei)Wu22Z | | | |

D=/, f 435-DlzQo2obie(iei)Wu22Z

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (A |
|--------------------|------------------------|----------|----------|-------------------------------|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-986-4 | Wt 0E | 40y | 46E | |
| 890-986-6 | Wt 05 | 9у | 445 | |
| 890-986-7 | Wt 07 | 40y | 46y | |
| 890-986-5 | Wt 09 | 404 | 466 | |
| 890-986-у | Wt 08 | 9E | 44y | |
| 890-986-E | Vt 0M | 97 | 440 | |
| 890-986-M | Wt 04 | 9M | 44E | |
| L1 W880-yE07j6-U | Lab 1 oer2oCVamp© | 99 | 444 | |
| L1 WD 880-yE07j7-U | Lab 1 oer2oCV/amp© Dup | 9M | 409 | |
| h / 880-yE07j4-U | h i rkog / @eF | 96 | 445 | |

Surrogate Legend

41 O f 4-1 k@2ooAnaei

OGSHf o-G 2pki edC

Tu2ozles Xi eAo31 a2Sbag

1 Clent WS PWU leAc Job ID: 890-986-4 WD.: GT04696046E S2ori AnjWni: / IB Tggd Peln4y0

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5570/5-A

Matrix: Solid

Analysis Batch: 5575

| Client | Sample | ID: | Method | Blank |
|--------|--------|-----|--------|-------|
| | _ | | | |

Prep Type: Total/NA

Prep Batch: 5570

| | IVID | IVID | | | | | | |
|-------------------|---------|-----------|--------|--------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| / i e5i ei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| GoCiei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| Trud(Chie5iei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| <-XdCei & p-XdCei | z0@0h00 | Р | 0@0h00 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| o-Xd©ei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| Xd©eis, GonaC | z0@0h00 | Р | 0@0h00 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| Gona O'GTX | z0@0h00 | Р | 0@0h00 | < BjmB | | 0Kj67j64 40:66 | 0Kj67j64 4y:04 | 4 |
| | | | | | | | | |

MB MB

MR MR

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------|----------|---------------|-----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | 72 - 102 | 273 03 1 129/ | 273 03 1 1: 921 | 1 |
| 1124-i 8luorobenzene (Surr) | 5, | 72 - 102 | 273 03 1 129/ | 273 03 1 1: 921 | 1 |

Lab Sample ID: MB 880-5583/5-A

Matrix: Solid

Analysis Batch: 5575

MB MB

| Client | Sample | ID: | Method | Blank |
|--------|--------|------|----------|--------|
| | Dr | an ' | Type: To | tal/NA |

ep Type: Total/NA

Prep Batch: 5583

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|---------|-----------|--------|--------|---|----------------|----------------|---------|
| / i e5i ei | z0@0600 | P | 0@0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| GoGiei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| Trud®cie5iei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| <-XdCei & p-XdCei | z0@0h00 | Р | 0@0h00 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| o-Xd©ei | z0@0600 | Р | 0@0600 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| Xd©reis, GomaC | z0@0h00 | Р | 0@0h00 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| Gona C'GTX | z0@0h00 | P | 0@0h00 | < BjmB | | 0Kj67j64 44:04 | 0Kj6hj64 04:y6 | 4 |
| | | | | | | | | |

| MB | M |
|----|---|
| | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 12, | | 72 - 102 | 273 03 1 11921 | 273 43 1 219 / | 1 |
| 1 🗗 - i 🕯 luorobenzene (Surr) | 50 | | 72 - 102 | 273 03 1 11921 | 273 43 1 219 / | 1 |

Lab Sample ID: LCS 880-5583/1-A

Matrix: Solid

Analysis Batch: 5575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5583 Spike LCS LCS %Rec.

| | Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
|---|-------------------|-------|-----------------|-----------|--------|---|------|---------------------|--|
| | / i e5i ei | 00400 | 0œ4066 | | < BjmB | | 406 | K0 ₋ 470 | |
| | GoGi ei | 0æ400 | 0@96h7 | | < BjmB | | 96 | K0 ₋ 470 | |
| | Trud®i e5i ei | 0¢400 | 0 @ 89h0 | | < BjmB | | 89 | K0 - 470 | |
| | <-XdCei & p-XdCei | 0600 | 0¢4874 | | < BjmB | | 96 | K0 ₋ 470 | |
| | o-Xd©ei | 0¢400 | 0 @ 960K | | < BjmB | | 96 | K0 - 470 | |
| 1 | | | | | | | | | |

| LCS | LCS |
|-----|-----|
| LUS | LUS |

| Surrogate | %Recovery Qual | ifier Limits |
|-----------------------------|----------------|--------------|
| 4-Bromofluorobenzene (Surr) | 111 | 72 - 102 |
| 1DI-i 8luorobenzene (Surr) | 127 | 72 - 102 |

T32oRes Xi eAo, 1 a2Sbag

1 @ ent WS PWU leAc Job ID: 890-986-4 S2ori ArjWri: / IBTggd Peln4y0 WD.: GT04696046E

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

Lab Sample ID: LCSD 880-5583/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 5575** Prep Batch: 5583

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-------------------|-------|------------------|-----------|--------|---|------|---------------------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| / i e5i ei | 00400 | 0¢4068 | | < BjmB | | 407 | K0 - 470 | 4 | 7y |
| GoCiei | 00400 | 0@89K8 | | < BjmB | | 90 | K0 ₋ 470 | 7 | 7y |
| Trud®tie5iei | 00400 | 0 d 08Ehy | | < BjmB | | 8E | K0 ₋ 470 | 7 | 7y |
| <-XdCei & p-XdCei | 0600 | 0¢4Ky6 | | < BjmB | | 88 | K0 ₋ 470 | h | 7у |
| o-XdCei | 00400 | 0 : 08K9h | | < BjmB | | 88 | K0 ₋ 470 | у | 7y |
| | | | | | | | | | |

LCSD LCSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 72 - 102 120 127 1D4-i 8luorobenzene (Surr) 72 - 102

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

Lab Sample ID: MB 880-5603/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 5611

| | ИВ МВ | | | | | • | |
|------------------------------------|---------------|---------------|--------|---|----------------|----------------|---------|
| Analyte Res | ult Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| . asoOei OaeBi (2BaelAs zyo | 0:00 P | y0d0 | < BjmB | | 0Kj67j64 4h:69 | 0Kj6hj64 48:y4 | 4 |
|). O(v-1 E-1 40 | | | | | | | |
| Dli si COaeBi (2BaelAs)(H2 zyl | 000 P | y0 : 0 | < BjmB | | 0Kj67j64 4h:69 | 0Kj6hj64 48:y4 | 4 |
| 1 40-1 68v | | | | | | | |
| (ICOaeBi (2BaelAs)(H 2168-17Ev zyl | 000 P | y0 © | < BjmB | | 0Kj67j64 4h:69 | 0Kj6hj64 48:y4 | 4 |
| Gora CGSf zy(| 0:00 P | у0Ф | < BjmB | | 0Kj67j64 4h:69 | 0Kj6hj64 48:y4 | 4 |

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 5/ 72 - 102 273 03 1 149 5 273 43 1 169 1 o-Terphenyl 114 72 - 102 273 03 1 149 5 273 43 1 169 1

Lab Sample ID: LCS 880-5603/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 5611** Prep Batch: 5603

| | Spike | LCS | LCS | | | | %Rec. | |
|----------------------------|-------|--------|-----------|--------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| . asotei OaeBi (2BaelAs | 4000 | 8y7c6 | | < BjmB | | 8y | K0 - 470 | |
|). O(v-1 E-1 40 | | | | | | | | |
| Dli si COaeBi (2BaelAs)(H2 | 4000 | 9886 | | < BjmB | | 99 | K0 - 470 | |
| 140-168v | | | | | | | | |

LCS LCS %Recovery Qualifier Limits Surrogate 72 - 102 1-Chlorooctane 55 111 72 - 102 o-Terphenyl

Lab Sample ID: LCSD 880-5603/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid

Analysis Batch: 5611

Prep Batch: 5603 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit aso@ei OaeBi (2BaelAs 4000 84yc7 < BjmB 86 K0 ₋ 470 60

). O(v-1 E-1 40

T32oRes Xi eAo, 1 a2Sbag

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 5603

 1 © en t WS PWU leAc
 Job ID: 890-986-4

 S2bri ArjWri: / IB Tggd Peln4y0
 WD. : GT04696046E

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

Lab Sample ID: LCSD 880-5603/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 5611** Prep Batch: 5603 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit < BjmB 4000 98hc0 98 K0 - 470 60 Dli si ODaeBi (2BaelAs)(H 2 0

140-168v

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 57 | | 72 - 102 |
| o-Terphenyl | 125 | | 72 - 102 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5608/1-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 5616

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 1 u@2gi
 zyd0
 P
 yd0
 < BjmB</td>
 0Kj6hj64 60:y6
 4

Lab Sample ID: LCS 880-5608/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 5616

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1 u@2qi 6yEc4 < BimB 90 - 440 6y0 406

Lab Sample ID: LCSD 880-5608/3-A Client Sar

Lab Sample ID: LCSD 880-5608/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 5616

LCSD LCSD RPD Spike %Rec. Analyte Added Qualifier Result Unit %Rec Limits Limit 1 u**@**2gi 6y0 6y7c9 < BjmB 406 90 - 440 60

T32oRes Xi eAo, 1 a2Sbag

QC Association Summary

1 © en t WS PWU leAc

S2ori AnjWni:/IBTggdPeln4y0

Job ID: 890-986-4

WD.: GT04696046E

GC VOA

Prep Batch: 5570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 3 / 880-yya0jy-U | 3 i rNog / CNeh | GorlMJk U | Wb@ | y05y | |

Analysis Batch: 5575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|------------|--------|--------|------------|
| 890-986-4 | Wt 0E | GorlMjjk U | Wb@ | 8064/ | yy85 |
| 890-986-6 | Wt OL | GorlMjjk U | Wb@ | 8064/ | yy85 |
| 890-986-5 | Wt 05 | GorMjk U | Wb@ | 8064/ | yy85 |
| 890-986-L | Wt 09 | GorlMjjk U | Wb@ | 8064/ | yy85 |
| 890-986-y | Wt 08 | GorMjk U | Wb@ | 8064/ | yy85 |
| 890-986-E | Wt 0a | GorlMjjk U | Wb@ | 8064/ | yy85 |
| 890-986-a | Wt 04 | GorMjk U | Wb@ | 8064/ | yy85 |
| 3 / 880-yya0jy-U | 3 inNog/ OWeh | GorMjk U | Wb@ | 8064/ | yya0 |
| 3 / 880-yy85jy-U | 3 in Nog/ OWeh | GorlMjjk U | Wb@ | 8064/ | yy85 |
| ml W880-yy85j4-U | mMb 1 oen2oOVMþ u€ | GorlMjjk U | Wb@ | 8064/ | yy85 |
| m1 WD 880-yy85j6-U | mMb 1 oen2oCNMp u€ D7u | GorlMjjk U | Wb@ | 8064/ | yy85 |

Prep Batch: 5583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-------------|--------|--------|------------|
| 890-986-4 | Wt 0E | Gorl/Mjjk U | Wb@ | у05у | |
| 890-986-6 | Wt OL | GorlMjjk U | Wb@ | y05y | |
| 890-986-5 | Wt 05 | GorlMjjk U | Wb@ | y05y | |
| 890-986-L | Wt 09 | GorlMjjk U | Wb@ | у05у | |
| 890-986-y | Wt 08 | GorlMjjk U | Wb@g | у05у | |
| 890-986-E | Wt 0a | GorlMjjk U | Wb@g | у05у | |
| 890-986-a | Wt 04 | GorlMjjk U | Wb@ | у05у | |
| 3 / 880-yy85jy-U | 3 in Nog / ONeh | GorlMjjk U | Wb@ | y05y | |
| ml W880-yy85j4-U | mMb 1 oen2oO/Mp u€ | GorlMjjk U | Wb@ | y05y | |
| m1 WD 880-yy85j6-U | mMb 1 oen2oOVMp u℃ D7u | GorlMjjk U | Wb@ | y05y | |

GC Semi VOA

Prep Batch: 5603

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|------------|--------|--------------|------------|
| 890-986-4 | Vt 0E | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 890-986-6 | Wt OL | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 890-986-5 | Wt 05 | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 890-986-L | Wt 09 | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 890-986-у | Wt 08 | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 890-986-E | Wt 0a | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 890-986-a | Wt 04 | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| 3 / 880-yE05j4-U | 3 i rNog / CMeh | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| ml W880-yE05j6-U | mMb 1 oen2oO/Mp u€ | GorlMjjk U | Wb@ | 804yk 3 S2 u | |
| ml WD 880-yE05j5-U | mMb 1 oen2oCWMb u€ D7u | GorM⊈k U | Wb@j | 804yk 3 S2 u | |

Analysis Batch: 5611

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|------------|--------|-----------|------------|
| 890-986-4 | Wt 0E | GorlMJk U | Wb@ | 804y/ k 3 | yE05 |
| 890-986-6 | Vt OL | GorlMjjk U | Wb@ | 804y/ k 3 | yE05 |
| 890-986-5 | Vt 05 | GorlMjjk U | Wb@ | 804y/ k 3 | yE05 |
| 890-986-L | Wt 09 | GorlMJk U | Wb@ | 804y/ k3 | yE05 |
| 890-986-y | Wt 08 | GorlMjjk U | Wb@ | 804y/ k 3 | yE05 |

T72ofles Xi eAo, 1 M23bMg

Page 14 of 24

QC Association Summary

1 © en t WS PWU leAc S2ori AnjWni: / IB Tggd Peln4y0 Job ID: 890-986-4 WD.: GT04696046E

GC Semi VOA (Continued)

Analysis Batch: 5611 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|------------|--------|-----------|------------|
| 890-986-E | Wt 0a | Gorl/Mjk U | Wo@ | 804y/ k 3 | yE05 |
| 890-986-a | Vt 04 | GorlMJJk U | Wb@ | 804y/ k 3 | yE05 |
| 3 / 880-yE05j4-U | 3 i nNog / CMeh | GorlMDk U | Wb@ | 804y/ k 3 | yE05 |
| ml W880-yE05j6-U | mMb 1 oer2oO/Mp u€ | GorlMjjk U | Wb@ | 804y/ k 3 | yE05 |
| m1 WD 880-yE05j5-U | mMb 1 oen2oCWMp u€ D7u | GorlMÇk U | Wb@ | 804y/ k3 | yE05 |

HPLC/IC

Leach Batch: 5608

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 890-986-4 | Wt 0E | VbØb€ | Wb@ | DI mi MAN | |
| 890-986-6 | Wt OL | ₩bØb© | Wb@ | DI mi MAN | |
| 890-986-5 | Wt 05 | VbØb€ | Wb@ | DI mi MAN | |
| 890-986-L | Wt 09 | ₩bØb© | Wb@ | DI mi MAN | |
| 890-986-y | Wt 08 | V6Øb€ | Wb@ | DI mi MAN | |
| 890-986-E | Wt 0a | ₩bØb© | Wb@ | DI mi MAN | |
| 890-986-a | Wt 04 | ₩0.0pc | Wb@ | DI mi MAN | |
| 3 / 880-yE08j4-U | 3 in Nog / OMeh | ₩bØb© | Wb@ | DI mi MAN | |
| ml W880-yE08j6-U | mMb 1 oen2oCVMp u€ | V6Øb€ | Wb@ | DI mi MAN | |
| m1 WD 880-yE08j5-U | mMb 1 oen2oOVMp u℃ D7u | ₩0.0pc | Wb@ | DI mi MAN | |

Analysis Batch: 5616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|----------------|--------|--------|------------|
| 890-986-4 | Wt 0E | MpQp@ | Wb@ | 500₺ | yE08 |
| 890-986-6 | Wt OL | ₩6Øb© | Wb@g | 500₺ | yE08 |
| 890-986-5 | Wt 05 | ₩0 ₽ ₽₽ | Wb@g | 500₺ | yE08 |
| 890-986-L | Wt 09 | ₩bØb© | Wb@ | 500₺ | yE08 |
| 890-986-y | Wt 08 | ₩0 ₽ ₽₽ | Wb@g | 500₺ | yE08 |
| 890-986-E | Wt 0a | ₩6Øb© | Wb@g | 500₺ | yE08 |
| 890-986-a | Wt 04 | ₩oæp© | Wb@ | 500₺ | yE08 |
| 3 / 880-yE08j4-U | 3 in Nog / 00/eh | ₩0 ₽ ₽© | Wb@ | 500₺ | yE08 |
| ml W880-yE08j6-U | mMb 1 oen2oCVMp u€ | ₩6Øb© | Wb@g | 500₺ | yE08 |
| m1 WD 880-yE08j5-U | mMb 1 oer2oCWMp u€ D7u | Wb\QpC | Wb@ | 500₺ | yE08 |

T72ofles Xi eAo, 1 M2SbMg

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Client: WSP USA Inc.

Client Sample ID: SW05

Date Collectex: 0d766764 0d:/ 6

Date 2 eceiRex: 0d766764 45:6/

Pjo/ectBSite: giEdyy5 Unit r @

SDT: 2d 0r 1910r 16

Lab Sample ID: 890-986-4

1 atriM Solix

Job ID: 890-981-r

| | Tatch | Tatch | | DilAtion | Tatch | yreparex | | |
|-----------|----------|--------------|------|----------|---------|----------------|---------|---------|
| yrep v3pe | v3pe | 1 ethox | 2 An | zactor | u Amber | or Bnal3sex | Bnal3Pt | Lab |
| 2otalBNA | Pjep | 03G | | | G33 | 07Bl3Blr rr:0r | KL | XdN MID |
| 2otalBNA | Anal5sis | 801rg | | r | GG7G | 07B14B1r 03:rG | KL | XdN MID |
| 2otalBNA | Pjep | 80r GNM Pjep | | | G603 | 07B13B1r r4:19 | AJ | XdN MID |
| 2otalBNA | Anal5sis | 80r Gg NM | | r | G6rr | 07B14B1r 1r:38 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | G608 | 07Bl3Blr r6:33 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | G6r 6 | 07B14B1r 13:04 | SC | XdN MID |

Client Sample ID: SW0/ Lab Sample ID: 890-986-6

1 atriM Solix Date Collectex: 0d766764 08:04

Date 2 eceiRex: 0d766764 45:6/

| _ | Tatch | Tatch | | DilAtion | Tatch | yreparex | | |
|-----------|----------|--------------|------|----------|---------|----------------|---------|---------|
| yrep v3pe | v3pe | 1 ethox | 2 An | zactor | u Amber | or Bnal3sex | Bnal3Pt | Lab |
| 2otalBNA | Pjep | 003G | | | GG83 | 07Bl3Blr rr:0r | KL | XdN MID |
| 2otalBNA | Anal5sis | 801rg | | r | GG7G | 07B14B1r 03:36 | KL | XdN MID |
| 2otalBNA | Pjep | 80r GNM Pjep | | | G603 | 07B13B1r r4:19 | AJ | XdN MID |
| 2otalBNA | Anal5sis | 80r Gg NM | | r | G6rr | 07B14B1r 1r:G9 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | G608 | 07Bl3Blr r6:33 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | G | G6r 6 | 07BI4BIr 13:09 | SC | XdN MID |

Client Sample ID: SW0N Lab Sample ID: 890-986-N

Date Collectex: 0d766764 08:0/ 1 atriM Solix

Date 2 eceiRex: 0d766764 45:6/

| | Tatch | Tatch | | DilAtion | Tatch | yreparex | | |
|-------------------|----------|--------------|------|----------|---------|----------------|---------|---------|
| yrep v3pe | v3pe | 1 ethox | 2 An | zactor | u Amber | or Bnal3sex | Bnal3Pt | Lab |
| 2otalBNA | Pjep | 003G | | | G33 | 07Bl3Blr rr:0r | KL | XdN MID |
| 2otalBNA | Anal5sis | 801rg | | r | GG7G | 07B14B1r 03:G6 | KL | XdN MID |
| 2otalBNA | Pjep | 80r GNM Pjep | | | G603 | 07B13B1r r4:19 | AJ | XdN MID |
| 2otal B NA | Anal5sis | 80r Gg NM | | r | G6rr | 07B14B1r 11:10 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | G608 | 07Bl4Blr r6:33 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | G6r 6 | 07Bl4Blr 13:rG | SC | XdN MID |

Client Sample ID: SW09 Lab Sample ID: 890-986-/ Date Collectex: 0d766764 09:4F

Date 2 eceiRex: 0d766764 45:6/

| | Tatch | Tatch | | DilAtion | Tatch | yreparex | | |
|-----------|----------|--------------|------|----------|---------|----------------|---------|---------|
| yrep v3pe | v3pe | 1 ethox | 2 An | zactor | u Amber | or Bnal3sex | Bnal3Pt | Lab |
| 2otalBNA | Pjep | @3G | | | G33 | 07B13B1r rr:0r | KL | XdN MID |
| 2otalBNA | Anal5sis | 801rg | | r | GG7G | 07B14B1r 04:r6 | KL | XdN MID |
| 2otalBNA | Pjep | 80r GNM Pjep | | | G603 | 07B13B1r r4:19 | AJ | XdN MID |
| 2otalBNA | Anal5sis | 80r Gg NM | | r | G6rr | 07B14B1r 11:4r | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | G608 | 07BI3BIr r6:33 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | G6r 6 | 07BI4BIr 13:10 | SC | XdN MID |

dujoins Xencof Cajlsbay

1 atriM Solix

 Client: WSP USA Inc.
 Job ID: 890-981-r

 Pjo/ectsite: g iE dyy5 Unit r c0
 SDT: 2d0r 1910r 16

Client Sample ID: SW08 Lab Sample ID: 890-986-F

Date Collectex: 0d766764 40:68

1 atriM Solix

Date 2 eceiRex: 0d766764 45:6/

| | Tatch | Tatch | | DilAtion | Tatch | yreparex | | |
|-----------|----------|--------------|------|----------|---------|----------------|---------|---------|
| yrep v3pe | v3pe | 1 ethox | 2 An | zactor | u Amber | or Bnal3sex | Bnal3Pt | Lab |
| 2otalBNA | Pjep | 003G | | | G33 | 07Bl3Blr rr:0r | KL | XdN MID |
| 2otalBNA | Anal5sis | 801rg | | r | GG7G | 07Bl4Blr 04:37 | KL | XdN MID |
| 2otalBNA | Pjep | 80r GNM Pjep | | | G603 | 07B13B1r r4:19 | AJ | XdN MID |
| 2otalBNA | Anal5sis | 80r Gg NM | | r | G6rr | 07Bl4Blr 13:01 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | G608 | 07Bl3Blr r6:33 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | G6r 6 | 07BI4BIr 13:16 | SC | XdN MID |

Client Sample ID: SW0d Lab Sample ID: 890-986-5

Date Collectex: 0d764764 4/:65
Date 2 eceiRex: 0d766764 45:6/

Tatch Tatch DilAtion Tatch y reparex yrep v3pe v3pe 1 ethox 2 An zactor u Amber or Bnal3sex Bnal3Pt Lab 2otalBNA Pjep **@3G** GC#33 07BI3BIr rr:0r KL XdN MID 2otalBNA Anal5sis 801rg GG7G XdN MID 07BI4BIr 04:G7 KL 2otalBNA XdN MID Piep 80r GNM Pjep G603 07BI3BIr r4:19 AJ 2otalBNA XdN MID Anal5sis 80r Gg NM Œrr 07BI4BIr 13:11 AJ

Client Sample ID: SW04

Date Collectex: 0d764764 0d:Fd

Lab Sample ID: 890-986-d

1 atriM Solix

G608

G6r 6

G6r 6

07BI3BIr r 6:33

07B14B1r 13:3r

07Bl4Blr 13:36

SC

SC

SC

Date 2 eceiRex: 0d766764 45:6/

Tatch Tatch DilAtion Tatch y reparex yrep v3pe v3pe 1 ethox 2 An zactor u Amber or Bnal3sex Bnal3Pt Lab 2otalBNA Pjep **@3G** GC#33 07B13B1r rr:0r KL XdN MID 2otalBNA Anal5sis 801rg 07Bl4Blr 0Gr8 XdN MID GG7G KL 2otalBNA XdN MID Piep 80r GNM Pjep G603 07BI3BIr r4:19 AJ 2otalBNA XdN MID Anal5sis 80r Gg NM G6rr 07BI4BIr 13:43 AJ 07BI3BIr r6:33 XdN MID Soluble Leach DI Leach G608 SC

Laborator3 2 eferenceP:

Soluble

Soluble

Soluble

Leach

Anal5sis

Anal5sis

DI Leach

300.0

XdN MID, dujo≑ns Xencof Miylanyf r 1rr W. Flojiya Avef Miylanyf 2X 7970rf 2dL (431)704-G440

300.0

dujoins Xencof Cajlsbay

XdN MID

XdN MID

XdN MID

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-986-4

 P1orectjSite: / iB g EEd Unit 4y0
 SD5: Gg 04696046T

Laboratory: Eurofins Xenco, Midland

| Authority | Pr | ogram | Identification Number | Expiration Date |
|-------------------------|-------------------------------|------------------------------------|---|------------------------|
| Geu, 2 | Ng | JLAP | G40x70xx00-60-64 | 0T-30-66 |
| Ose anllohinB n ldte2 | 1e inclyEeE in tsi2 1eno1twhy | rt tse I ho1 to1d i2 not ce1tia | eEbd tse Bof e1ninB, vtso1itd. Gsi2 li2t m, | dinclyEq n ldto2 a |
| tse , Bencd Eoe2 not oa | • | t too i, bo i, to ki iz not oo kid | ee bu tee boi e mind, viso mu. Gsiz iizi iii, | , a movee, m, latez a |
| | • | M, t1iu | An, Idte | , a movee , n, latez a |
| tse , Bencd Eoe2 not oa | æ1ce1tiaic, tion. | , , | , | , u move, m, lutez a |

Method Description

MIA2oi xr2aArloe

Vo@rl© O2BaelA1 ompouegs (. 1) Dli si CRaeBi O2BaelAs (DRO) (. 1)

Ueloes, loe 1 h2omaroB2aphd

1 @sig Wdsnim Su2Bi aeg G2ap

Di loelzi g t ani 2Li aAhleB S2oAi gu2

Method Summary

1 Clent WS PWU leAc

Method

804y/ NM 3000

804yNM S2 p

DI Li aAh

8064/

y03y

S2ori ArjWri: / IB Tggd Peln4y0

Job ID: 890-986-4

WD.: GT04696046E

| Protocol | Laboratory |
|----------|------------|
| Wt 85E | XTN MID |
| Wt 85E | XTN MID |
| M1 Ut t | XTN MID |
| Wt 85E | XTN MID |

> XTN MID XTN MID

Wt 85E

UWGM

Protocol References:

UWGM = UWGM leri 2earloeaC

M1 Ut t = "Mi rhogs Fo21 hi mlAaQJea@sls Of t an 2Ueg t asnis", TSU-E00j5-79-060, Ma2Ah 4983 Ueg Wubsi qui enRi vlsloesc Wt 85E = "G snMi rhogs Fo2Tva@arleB Wo@g t asri , ShdslAa@t hi mlAaOMi rhogs", Chl2g Tglrloe, Novi mbi 2498E Ueg Ins Ppgari sc

Laboratory References:

XTN MID = Tu2ofles Xi eAo, Mlg@eg, 4644 t cF@2ga Uvi , Mlg@eg, GX 79704, GTL (536)705-y550

Tu2ofles Xi eAo, 1 a2Sbag

Sample Summary

Client: WSP USA Inc.

P2orectjSite: / iBTggd Unit 4y0

Job ID: 890-986-4

SD1: GT04696046E

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-986-4 | SW0E | Solig | 05j66j64 05:76 | 05j66j64 4E:67 | 0 - 7 |
| 890-986-6 | SW07 | Solig | 05j66j64 08:04 | 05j66j64 4E:67 | 0 - 7 |
| 890-986-3 | SW03 | Solig | 05j66j64 08:07 | 05j66j64 4E:67 | 0 - 7 |
| 890-986-7 | SW09 | Solig | 05j66j64 09:4y | 05j66j64 4E:67 | 0 - 7 |
| 890-986-y | SW08 | Solig | 05j66j64 40:68 | 05j66j64 4E:67 | 0 - 7 |
| 890-986-E | SW05 | Solig | 05j64j64 47:6E | 05j66j64 4E:67 | 0 - 7 |
| 890-986-5 | SW04 | Solig | 05j64j64 05:y5 | 05j66j64 4E:67 | 0 - 7 |

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Project Name:

Turn Around

ANALYSIS REQUEST

Work Order Notes

| | tate ZIP: Midland TX 79705 | ss: 3300 North A Street | any Name: WSP USA | Manager: Dan Moir | LABORATORIES | |
|--------------------------------|--|---------------------------------|------------------------------------|---------------------------------------|--|----------------|
| | 05 City, State ZIP: Carlsbad, NM 88220 | reet Address: 522 W. Mermod St. | Company Name: XTO Energy | Bill to: (if different) Kyle Littrell | Houston, TX (281) 240-4200 Dalias, IX (214) 902-0300 San Antonio, IX (210) 309-333-443 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 (81 | |
| Deliverables: FDD ADaPT II Off | Reporting:Level III FT/UST IRP | State of Project: | Program: UST/PST _RPrownfields _RC | Work Order Comments | 296 (813-620-2000) <u>www.xenco.com</u> Page | Work Order No: |

| | | | | - | | | | | |
|------------------------------------|---|--|--|---|---|--|--|---|--|
| | | 4 | | | | | | | 3 |
| | | にのけ | | 2.22.2 | | Carl | los | | in som |
| Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Time | Date/Time | ture) | Received by: (Signature) | Recei | ature) | Relinquished by: (Signature) |
| | rd terms and conditions ances beyond the control eviously negotiated. | Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | y to Xenco, its at benses incurred t enco, but not ana | client compan losses or exp ubmitted to X | purchase order from responsibility for any \$5 for each sample s | constitutes a valid all not assume any ect and a charge of | of samples of ples and sha to each proje | it and relinquishment ily for the cost of sam 75.00 will be applied | Notices Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract 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 loss 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 |
| 1245.117470 17471 Hg | TI U 1631 | Shas Ba Be Cd Cr Co Cu Ph Mn Mo Ni Se Ag Ti U | s Ba Be Cd | RA Sb A | BRCRA 13PPM lexas 11 Al So As Ba Be TCLP / SPLP 6010: 8RCRA Sb As Ba Be | TCLP / SF | nalyzed | 200.8 / 6020: Metal(s) to be a | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed |
| Sp II V Zp | Ma Ni K Sa Ag SiO3 Na Sr T | | | | | | | _ | |
| | | | | | | + | | | |
| | | | | | | ++ | 117 | | |
| E | | | < | 4 | 0-4' | 6757 | 7/3//3/ | | 1005 |
| | | | / | | 0-41 | 2 125 1c | 7/21/21 | | SWO7 |
| | | | | | 4 | 1008 | 4 | | Sw08 |
| | | | | | 3 | 5160 | | | Swaq |
| | | | | | | 4080 | | | 52063 |
| | | | | - | * | 1080 | - | | SWOY |
| company | c | | × | \ \(\chi\) | 0-4 | 61 0742 | 7/22/21 | v | Swob |
| Sample Comments | S | | BTEX (| Numb | Depth | ed Sampled | Date Sampled | on Matrix | Sample Identification |
| lab, if received by 4.30pm | a | | | | | Total Containers: | | Yes (No) NIA | Sample Custody Seals: |
| TAT starts the day recevied by the | TAT st | | | | 4 | Correction Factor: | c | Yes NA NA | Cooler Custody Seals: |
| | Custody | Chain of Custody | | | | 480-WWD | | red No | Received Intact: |
| | | 890.983 | - | iner | | Thermometer ID | | 9.6/9.9 | Temperature (°C): |
| Em 3501.0180 EX1.61 | Ew. | | | | Wet loe: Yes No | No Wet los | Yes | Temp Blank: | SAMPLE RECEIPT |
| | APE. | | | 1196/ | Due Date: 44551 | Due |) <u>=</u> | Jeremy Hill | Sampler's Name: |
| 1001 41001 | 1,401 | | _ | 141 | Rush: 137 | | 8548 | NAMOON4854885 | P.O. Number: Zn. |
| | 33 | | | | tine 1 | Routine | 26 | 75010900125 | Project Number: 7. |

perfund

Level IV

Carlsbad, NM 88220

1089 N Canal St.

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

eurofins

America Environment Testing

State Zip. TX, 79701 SW08 (890-982-5) SW09 (890-982-4) Empty Kit Relinquished by Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. SW01 (890-982-7) SW07 (890-982-6) SW03 (890-982-3) SW04 (890-982-2) SW06 (890-982-1) Sample Identification - Client ID (Lab ID) Shipping/Receiving Deliverable Requested 1 II III IV Other (specify) Possible Hazard Identification Big Eddy Unit 150 432-704-5440(Tel) Midland Phone 575-988-3199 Fax: 575-988-3199 1211 W Florida Ave, urofins Xenco Custody Seals Intact. linquished by oject Name: lient Information (Sub Contract Lab) nquished by: nquished by: Yes A No Custody Seal No WO# Date/Time Date/Time PO# Date/Time Primary Deliverable Rank. 2 89000004 TAT Requested (days) Due Date Requested Sampler Sample Date 7/23/2021 none roject # 7/22/21 7/22/21 7/22/21 7/22/21 7/21/21 7/21/21 7/22/21 Date Mountain 07 57 Mountain 14 26 Mountain 10 28 Mountain 09 15 Mountain 08 04 Mountain 08 01 Mountair Sample 07 42 G=grab) (C=comp, Sample Preservation Code: Type Company Company BT*TIssue Matrix Solid Solid Solid Solid Solid Solid Solid Kramer Jessica jessica kramer@eurofinset.com E-Mail Lab PM Time Field Filtered Sample (Yes or No) NELAP - Louisiana, NELAP - Texas ccreditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by Cooler Temperature(s) °C and Other Remarks × × × × × × × 8015MOD_NM/8015NM_S_Prep Full TPH × × × × 300 ORGFM_28D/DI_LEACH Chloride × × × × × × × × × 8021B/5035FP_Calc BTEX Analysis Requested New Mexico State of Origin Method of Shipment Tracking No(s) Date/Time Date/Time 4 ۵ Total Number of containers 40 ع 4 -890-314 1 MOCEN I O Preservation 890-982-1 Page 1 of 1 age DI Water EDTA Amchlor Ascorbic Acid NaOH
Zn Acetate
Nitric Acid
NaHSO4 Special Instructions/Note: - to 70 SZOFO Company Company Company MCAA AsNaO2 Na2O4S Na2SO3 other (specify) pH 4-5 TSP Dodecahydrate Acetone H2S04 Na2S2O3 Months

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-986-4

S1 D Number: GT04696046E

Login Number: 982 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

| Question | Answer | Comment |
|---|--------|---------|
| G2e coolerh cu' tosd ' eylai, f re' entai' intyct. | Grue | |
| Symf le cu' tosd ' eyl' ai, f re' entayre intyct. | Grue | |
| G2e cooler or 'ymf le' so not yf f eyr to 2ype been comf romi' es or tymf eres v it2. | Grue | |
| Symf le' v ere receipes on ice. | Grue | |
| Cooler @mf eryture i' yccef tyble. | Grue | |
| Cooler @mf eryture i' recorses. | Grue | |
| CwC i' f re' ent. | Grue | |
| CwC i', illes out in inOyns lekible. | Grue | |
| CwC i', illes out vit2 yll f ertinent in,ormytion. | Grue | |
| I' t2e giels Symf lerh nyme f re' ent on CwCF | Grue | |
| G2ere yre no si' cref yncie' betv een t2e contyiner' receipes yns t2e CwC. | Grue | |
| Symf le' yre receipes v it2in ? olsink Gme He(clusink te' t' v it2 immesiyte ? G x | Grue | |
| Symf le contyiner' 2ype lekible lybel' . | Grue | |
| Contyiner' yre not bro@en or ley@nk. | Grue | |
| Symf le collection syte)time' yre f ropises. | Grue | |
| Af f rof riyte ' ymf le contyiner' yre u' es. | Grue | |
| Symf le bottle' yre comf leteld ,illes. | Grue | |
| Symf le Pre' erpytion / eri,ies. | N)A | |
| G2ere i' 'u,,icient pol.,or yll reVue' tes ynyld' e' aincl. ynd reVue' tes q S)q S1' | Grue | |
| Contyiner' reVuirink Mero 2eys' f yce 2ype no 2eys' f yce or bubble i' zEmm H)<"x | N)A | |

-

Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-986-4 S1 D Number: GT04696046E

List Source: Eurofins Xenco, Midland

List Creation: 07/23/21 02:09 PM

Creator: Phillips, Kerianna

Login Number: 982

List Number: 2

z Emm **H**)<"x

| Question | Answer Comment |
|---|----------------|
| G2e coolerh cu' tosd ' eylai, f re' entai' intyct. | Gue |
| Symf le cu' tosd ' eyl' ai, f re' entayre intyct. | Gue |
| G2e cooler or 'ymf le' so not yf f eyr to 2ype been comf romi' es or | Grue |
| tymf eres v it2. | |
| Symf le' v ere receipes on ice. | Grue |
| Cooler @mf eryture i' yccef tyble. | Grue |
| Cooler @mf eryture i' recorses. | Gue |
| CwC i' f re' ent. | Gue |
| CwC i' ,illes out in inOyns lekible. | Grue |
| CwC i', illes out v it2 yll f ertinent in,ormytion. | Grue |
| I' t2e giels Symf lerh nyme f re' ent on CwCF | Grue |
| G2ere yre no si' cref yncie' betv een t2e contyiner' receipes yns t2e CwC. | Grue |
| Symf le' yre receipes v it2in ? olsink Gme He(clusink te' t' v it2 immesiyte ? G x | Grue |
| Symf le contyiner' 2ype lekible lybel'. | Grue |
| Contyiner' yre not bro@en or ley@nk. | Grue |
| Symf le collection syte)time' yre f ropises. | Grue |
| Affrof riyte 'ymfle contyiner' yre u'es. | Grue |
| Symf le bottle' yre comf leteld ,illes. | Grue |
| Symf le Pre' erpytion / eri,ies. | Grue |
| G2ere i' ' u,,icient pol. ,or yll re Vue' tes ynyld' e' aincl. ynd re Vue' tes q $\mbox{S}\mbox{\sc q}$ $\mbox{S}\mbox{\sc d}$ | Grue |
| Contyiner' reVuirink Mero 2eys' f yce 2ype no 2eys' f yce or bubble i' | Grue |

Eurofins Xenco, Carlsbad

Released to Imaging: 2/28/2022 4:36:12 PM



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-983-1

Laboratory Sample Delivery Group: TE012920126

Client Project/Site: Big Eddy Unit 150

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 7/28/2021 8:59:19 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 2/28/2022 4:36:12 PM

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

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

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Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-983-1

SDG: TE012920126

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

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

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Too Numerous To Count **TNTC**

Case Narrative

Client: WSP USA Inc. Pjo/ectBSite: giEdyy5 Unit r CO Job ID: 890-981-r

SDT: 2d 0r 6960r 6h

Job ID: 890-983-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-983-1

Receipt

2se amp wlea v eje jecei7ey on 48668506r 3:63 PM. Unleaa otsejv iae notey belov, tse amp wlea mjji7ey in Eooy conyition, mmy, v seje jequijey, wjowejl5 wjeaej7ey mny on ice. 2se tep wejmtuje of tse coolej mt jeceiwt tip e v ma 9.3°C

GC VOA

No myyitionm mm/5ticm oj qumit5 iaauea v eje notey, otsej tsmn tsoae yeacjibey mbo7e oj in tse DefinitionaBT loaamj5 wmEe.

GC Semi VOA

No myyitionm mm/5ticm oj qumit5 iaauea v eje notey, otsej tsmn tsoae yeacjibey mbo7e oj in tse DefinitionaBT loaamj5 wmEe.

No myyitionm mm/5ticm oj qumit5 iaauea v eje notey, otsej tsmn tsoae yeacjibey mbo7e oj in tse DefinitionaBT loaamj5 wmEe.

Lab Sample ID: 890-983-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS25

Date Collected: 07/22/21 11:33 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | 0.00543 | | 0.00202 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| Ethylbenzene | 0.00863 | | 0.00202 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| m-Xylene & p-Xylene | 0.00703 | | 0.00403 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| o-Xylene | 0.00915 | F1 | 0.00202 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| Xylenes, Total | 0.0162 | | 0.00403 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| Total BTEX | 0.0302 | | 0.00403 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 175 | S1+ | 70 - 130 | 07/23/21 14:19 | 07/24/21 02:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 07/23/21 14:19 | 07/24/21 02:25 | 1 |

| Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | |
|---|----------------|-----------|--------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 12:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 12:40 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 12:40 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 12:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |

| Surroyate | Mecovery Quanties | LIIIIII | riepaieu | Allalyzeu | DII Fac |
|-----------------------------------|----------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 95 | 70 - 130 | 07/26/21 16:18 | 07/28/21 12:40 | 1 |
| o-Terphenyl | 103 | 70 - 130 | 07/26/21 16:18 | 07/28/21 12:40 | 1 |
| Method: 300.0 - Anions, Ion Chron | natography - Soluble | | | | |

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 50.3 07/24/21 20:01 Chloride 3670 mg/Kg **Client Sample ID: FS20** Lab Sample ID: 890-983-2

Date Collected: 07/22/21 11:45 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 02:46 | 1 |

Matrix: Solid

Lab Sample ID: 890-983-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS20

Date Collected: 07/22/21 11:45 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 13:42 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 13:42 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 13:42 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 13:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 94 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 13:42 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 13:42 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |

Client Sample ID: FS19 Lab Sample ID: 890-983-3 Matrix: Solid

Date Collected: 07/22/21 12:31 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|--|---|----------------------------------|----------|--|--|---|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 03:07 | 1 |
| Method: 8015B NM - Diesel Ranç Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Mothod: 8015B NM - Diosal Pane | no Organics (D | BO) (GC) | | | | | | |
| Analyte Gasoline Range Organics | | Qualifier | RL | Unitmg/Kg | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 14:03 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result < 50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | | | 1 |
| Analyte Gasoline Range Organics | Result | Qualifier U | | | <u>D</u> | 07/26/21 16:18 | 07/28/21 14:03 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result < 50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 14:03 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 <50.0 | Qualifier U U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 14:03 07/28/21 14:03 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH | Result <50.0 <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 | 1 1 1 1 Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate | Result | Qualifier U U U U | 50.0 50.0 50.0 50.0 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared | 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 Analyzed | Dil Face 1 1 1 1 1 1 Dil Face 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier Soluble | 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130 | mg/Kg mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 Analyzed 07/28/21 14:03 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130 | mg/Kg mg/Kg mg/Kg | D | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 07/28/21 14:03 Analyzed 07/28/21 14:03 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

Lab Sample ID: 890-983-4

Client Sample Results

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-983-1

SDG: TE012920126

Client Sample ID: FS18

Date Collected: 07/22/21 12:32 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------------------------|-------------------------------|---|----------------------------|----------|--|--|---------------------------------------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| Xylenes, Total | < 0.00396 | U | 0.00396 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 03:28 | 1 |
| Method: 8015B NM - Diesel Rand | ge Organics (DI | RO) (GC) | | | | | | |
| | | | | | | | | |
| Method: 8015B NM - Diesel Ranç Analyte | Result | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | |
| Analyte Gasoline Range Organics | | Qualifier | | <mark>Unit</mark> mg/Kg | D | Prepared 07/26/21 16:18 | Analyzed 07/28/21 14:24 | Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result | Qualifier U | | | <u>D</u> | <u> </u> | | 1 |
| Analyte | Result <50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 14:24 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 <50.0 | Qualifier U U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 14:24 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH | Result <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result | Qualifier U U U U | 50.0 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate | Result | Qualifier U U U U | 50.0 50.0 50.0 50.0 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 <i>Prepared</i> | 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 Analyzed | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 Limits 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 07/28/21 14:24 Analyzed 07/28/21 14:24 | |

Client Sample ID: FS15

Date Collected: 07/22/21 12:39

Lab Sample ID: 890-983-5

Matrix: Solid

1180

5.04

mg/Kg

Date Received: 07/22/21 16:24

Sample Depth: - 4

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 03:48 | |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 03:48 | 1 |

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07/24/21 18:41

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Lab Sample ID: 890-983-5

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-983-1

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Client Sample ID: FS15

Date Collected: 07/22/21 12:39 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | |
|---------------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.8 | U | 49.8 | mg/Kg | | 07/26/21 16:18 | 07/28/21 14:44 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.8 | U | 49.8 | mg/Kg | | 07/26/21 16:18 | 07/28/21 14:44 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 07/26/21 16:18 | 07/28/21 14:44 | 1 |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | 07/26/21 16:18 | 07/28/21 14:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 14:44 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 14:44 | 1 |
| - Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 988 | | 5.00 | mg/Kg | | | 07/24/21 18:46 | 1 |

Client Sample ID: FS14

Date Collected: 07/22/21 12:41

Lab Sample ID: 890-983-6

Matrix: Solid

Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|----------|-------|---|----------------------------------|----------------------------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| o-Xylene | < 0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| Xylenes, Total | < 0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:09 | 1 |
| _ Method: 8015B NM - Diesel Ran | ge Organics (D | RO) (GC) | | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | 49.7 | mg/Kg | | 07/26/21 16:18 | 07/28/21 15:05 | 1 |
| Gasoline Range Organics | <49.7 | U | 45.7 | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 45.7 | 9/.19 | | | | |
| 5 5 | <49.7 <49.7 | | 49.7 | mg/Kg | | 07/26/21 16:18 | 07/28/21 15:05 | 1 |
| (GRO)-C6-C10 Diesel Range Organics (Over | | U | | | | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 15:05 07/28/21 15:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92 | | 70 - 130 | 07/26/21 16:18 | 07/28/21 15:05 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | 07/26/21 16:18 | 07/28/21 15:05 | 1 |

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 265 | | 5.00 | mg/Kg | | | 07/24/21 18:52 | 1 |

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Lab Sample ID: 890-983-7

Client Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS13

Date Collected: 07/22/21 13:11 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|-----------------------|------------------------------------|-------------------------|----------|--|--|------------------------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:30 | 1 |
| 4 4 10 15 1 10 10 1 | | | | | | 07/00/04 44 40 | 07/04/04 04 00 | 4 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:30 | 7 |
| 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang | | RO) (GC) | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:30 | 7 |
| | ge Organics (D | RO) (GC) Qualifier | 70 ₋ 130 RL | Unit | D | 0//23/21 14:19 Prepared | 07/24/21 04:30 Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Rang | ge Organics (D | Qualifier | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte | ge Organics (D | Qualifier | RL | | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | ge Organics (D | Qualifier U | RL | | <u>D</u> | Prepared | Analyzed | Dil Fac 1 |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 | ge Organics (Di Result <49.9 | Qualifier U | RL 49.9 | mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 15:26 | Dil Fac 1 |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | ge Organics (Di Result <49.9 | Qualifier U | RL 49.9 | mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 15:26 | Dil Fac 1 |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | ge Organics (D Result <49.9 | Qualifier U U | RL 49.9 | mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 07/26/21 16:18 | Analyzed 07/28/21 15:26 07/28/21 15:26 | Dil Fac 1 1 1 |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | ge Organics (D) Result <49.9 <49.9 | Qualifier U U U U | RL 49.9 49.9 | mg/Kg mg/Kg mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | Analyzed 07/28/21 15:26 07/28/21 15:26 07/28/21 15:26 | Dil Fac 1 1 1 1 Dil Fac |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH | ge Organics (D) Result <49.9 <49.9 <49.9 <49.9 | Qualifier U U U U | RL 49.9 49.9 49.9 49.9 | mg/Kg mg/Kg mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | Analyzed 07/28/21 15:26 07/28/21 15:26 07/28/21 15:26 07/28/21 15:26 | 1 1 1 |

Client Sample ID: FS12 Lab Sample ID: 890-983-8 Date Collected: 07/22/21 13:14 **Matrix: Solid**

RL

24.8

Unit

mg/Kg

D

Prepared

Analyzed

07/25/21 21:15

Result Qualifier

1350

Date Received: 07/22/21 16:24

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: - 4

Analyte

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:50 | |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 04:50 | 1 |

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Dil Fac

Lab Sample ID: 890-983-8

Client Sample Results

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Client Sample ID: FS12

Date Collected: 07/22/21 13:14 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | |
|-----------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 15:47 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 15:47 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 15:47 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 15:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 15:47 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 15:47 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 654 | | 4.97 | mg/Kg | | | 07/24/21 19:17 | 1 |

Client Sample ID: FS11

Date Collected: 07/22/21 13:18

Lab Sample ID: 890-983-9

Matrix: Solid

Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|-------------------------------|---|-------------------------|----------|--|--|---------------------------------------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| o-Xylene | 0.00234 | | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| Xylenes, Total | < 0.00399 | U | 0.00399 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 05:11 | 1 |
| | | | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Made de COASD NIM Discoul Donn | | DO) (OO) | | | | | | |
| Method: 8015B NM - Diesel Rang Analyte | Result | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Analyte Gasoline Range Organics | | Qualifier | RL 50.0 | Unit mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 16:07 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result < 50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 16:07 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result | Qualifier U | | | <u>D</u> | | | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result < 50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 16:07 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 <50.0 | Qualifier U U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 16:07 07/28/21 16:07 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH | Result <50.0 <50.0 <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 | 1 1 1 1 1 Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate | Result <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 %Recovery | Qualifier U U U U | 50.0 50.0 50.0 50.0 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared | 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 Analyzed | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 Analyzed 07/28/21 16:07 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 07/28/21 16:07 Analyzed 07/28/21 16:07 | Dil Fac 1 Dil Fac 1 Dil Fac |

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Lab Sample ID: 890-983-10

Client: WSP USA Inc.

Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS10

Date Collected: 07/22/21 13:21 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|---------------------------|---|-------------------------|----------|--|--|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| Xylenes, Total | < 0.00396 | U | 0.00396 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 05:32 | 1 |
| Method: 8015B NM - Diesel Ran | • • • | , , , | DI | Unit | Ь | Dronovod | Anglyzod | Dil Eo |
| • | | | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Analyte Gasoline Range Organics | • • • | Qualifier | RL 49.9 | Unit mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 16:28 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <49.9 | Qualifier U | 49.9 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 16:28 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result | Qualifier U | | | <u>D</u> | <u>.</u> | | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <49.9 | Qualifier U | 49.9 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 16:28 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <49.9 <49.9 | Qualifier U U | 49.9 | mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 16:28 07/28/21 16:28 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <49.9 <49.9 <49.9 | Qualifier U U U U | 49.9 49.9 49.9 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH | Result <49.9 <49.9 <49.9 <49.9 <49.9 | Qualifier U U U U | 49.9 49.9 49.9 49.9 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate | Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery | Qualifier U U U U | 49.9 49.9 49.9 49.9 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 <i>Prepared</i> | 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 Analyzed | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier | 49.9 49.9 49.9 49.9 Limits 70.130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 Analyzed 07/28/21 16:28 | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U U U Qualifier | 49.9 49.9 49.9 49.9 Limits 70.130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 07/28/21 16:28 Analyzed 07/28/21 16:28 | Dil Fac |

Client Sample ID: FS01 Lab Sample ID: 890-983-11 Date Collected: 07/22/21 14:42 **Matrix: Solid**

Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 121 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 06:55 | 1 |

Lab Sample ID: 890-983-11

Client Sample Results

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-983-1

SDG: TE012920126

Client Sample ID: FS01

Date Collected: 07/22/21 14:42 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 17:09 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 17:09 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 17:09 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 17:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 92 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 17:09 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 17:09 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | 246 | | 5.03 | mg/Kg | | | 07/24/21 21:09 | |

Client Sample ID: FS02

Date Collected: 07/22/21 14:44

Lab Sample ID: 890-983-12

Matrix: Solid

Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|-------------------------------|---|-------------------------|----------|--|--|---------------------------------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 85 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 07:15 | 1 |
| Method: 8015B NM - Diesel Rand | ge Organics (D | RO) (GC) | | | | | | |
| Mathadi 204ED NM Diagal Dani | no Ormanico (Di | BOY (CC) | | | | | | |
| Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics | Result | Qualifier | RL | Unit ma/Ka | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 17:30 | Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <50.0 | Qualifier U | 50.0 | mg/Kg | D | 07/26/21 16:18 | 07/28/21 17:30 | 1 |
| Analyte Gasoline Range Organics | Result | Qualifier U | | | <u>D</u> | | | Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.0 | Qualifier U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 17:30 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <50.0 <50.0 | Qualifier U U | 50.0 | mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 17:30 07/28/21 17:30 | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 | 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH | Result <50.0 <50.0 <50.0 <50.0 <50.0 | Qualifier U U U U | 50.0 50.0 50.0 50.0 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 | 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate | Result | Qualifier U U U U | 50.0 50.0 50.0 50.0 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u> </u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 <i>Prepared</i> | 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 Analyzed | 1 1 1 1 1 1 Dil Fac |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 Analyzed 07/28/21 17:30 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl | Result | Qualifier U U U Qualifier | 50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130 | mg/Kg mg/Kg mg/Kg | D_ | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 07/28/21 17:30 Analyzed 07/28/21 17:30 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS03

Date Collected: 07/22/21 14:47 Date Received: 07/22/21 16:24

Sample Depth: - 4

Lab Sample ID: 890-983-13

07/26/21 16:18

07/28/21 17:51

Matrix: Solid

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 07:36 | 1 |

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Unit Analyzed Dil Fac RLPrepared <49.9 U 07/28/21 17:51 Gasoline Range Organics 49.9 mg/Kg 07/26/21 16:18 (GRO)-C6-C10 07/26/21 16:18 07/28/21 17:51 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg C10-C28) OII Range Organics (Over C28-C36) 49.9 07/26/21 16:18 07/28/21 17:51 <49.9 U mg/Kg Total TPH <49.9 U 49.9 mg/Kg 07/26/21 16:18 07/28/21 17:51 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 90 70 - 130 07/26/21 16:18 07/28/21 17:51

| Method | Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|----------|--|---------------|------|-------|---|----------|----------------|---------|--|--|--|
| Analyte | Res | ult Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | | |
| Chloride | | 40 | 4.96 | mg/Kg | | | 07/24/21 21:31 | 1 | | | |

70 - 130

98

Client Sample ID: FS04 Lab Sample ID: 890-983-14

Date Collected: 07/22/21 14:49 Date Received: 07/22/21 16:24

Sample Depth: - 4

o-Terphenyl

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 07/23/21 14:19 | 07/24/21 07:57 | , |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 07:57 | |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 07:57 | 1 |

Lab Sample ID: 890-983-14

Client Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Client Sample ID: FS04

Date Collected: 07/22/21 14:49 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 18:12 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 18:12 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 18:12 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 07/26/21 16:18 | 07/28/21 18:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 90 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 18:12 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | | | 07/26/21 16:18 | 07/28/21 18:12 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |

Client Sample ID: FS05 Lab Sample ID: 890-983-15 Matrix: Solid

Date Collected: 07/22/21 14:51 Date Received: 07/22/21 16:24

Sample Depth: - 4

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|-------------------------------|---|-------------------------|----------|--|--|---------------------------------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 07/23/21 14:19 | 07/24/21 08:18 | 1 |
| Method: 8015B NM - Diesel Ranç Analyte Gasoline Range Organics | | Qualifier | RL 49.9 | Unit mg/Kg | <u>D</u> | Prepared 07/26/21 16:18 | Analyzed 07/28/21 18:33 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 | Result | Qualifier U | | mg/Kg | <u>D</u> | | | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <49.9 <49.9 | Qualifier U | 49.9 | | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 18:33 07/28/21 18:33 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result <49.9 | Qualifier U | 49.9 | mg/Kg | <u>D</u> | 07/26/21 16:18 | 07/28/21 18:33 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result <49.9 <49.9 | Qualifier U U | 49.9 | mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 | 07/28/21 18:33 07/28/21 18:33 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH | Result <49.9 <49.9 <49.9 | Qualifier U U U U | 49.9 49.9 49.9 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 | |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH | Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49 | Qualifier U U U U | 49.9 49.9 49.9 49.9 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 | 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 | |
| · · · · · · · · · · · · · · · · · · · | Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery | Qualifier U U U U | 49.9 49.9 49.9 49.9 <i>Limits</i> | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared | 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 Analyzed | Dil Fa |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl | Result <49.9 <49.9 <49.9 <49.9 <49.9 <9.9 <9.9 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9.0 <9. | Qualifier U U U Qualifier | 49.9 49.9 49.9 49.9 Limits 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 Analyzed 07/28/21 18:33 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane | Result | Qualifier U U U Qualifier | 49.9 49.9 49.9 49.9 Limits 70 - 130 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 07/26/21 16:18 Prepared 07/26/21 16:18 | 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 07/28/21 18:33 Analyzed 07/28/21 18:33 | Dil Fac |

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | BFB1 | DFBZ1 | Percent Surrogate Recovery (Acceptance Limits) |
|-------------------|------------------------|----------|----------|--|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-983-1 | FS25 | 175 S1+ | 115 | |
| 890-983-1 MS | FS25 | 102 | 97 | |
| 890-983-1 MSD | FS25 | 96 | 89 | |
| 890-983-2 | FS20 | 113 | 108 | |
| 890-983-3 | FS19 | 115 | 103 | |
| 890-983-4 | FS18 | 126 | 105 | |
| 890-983-5 | FS15 | 110 | 102 | |
| 890-983-6 | FS14 | 112 | 104 | |
| 890-983-7 | FS13 | 118 | 99 | |
| 890-983-8 | FS12 | 101 | 98 | |
| 890-983-9 | FS11 | 107 | 108 | |
| 890-983-10 | FS10 | 119 | 101 | |
| 890-983-11 | FS01 | 121 | 105 | |
| 890-983-12 | FS02 | 85 | 81 | |
| 890-983-13 | FS03 | 113 | 107 | |
| 890-983-14 | FS04 | 113 | 106 | |
| 890-983-15 | FS05 | 112 | 103 | |
| LCS 880-5601/1-A | Lab Control Sample | 94 | 90 | |
| LCSD 880-5601/2-A | Lab Control Sample Dup | 98 | 102 | |
| | Method Blank | 107 | 100 | |
| MB 880-5574/5-A | | 113 | 97 | |

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent |
|------------------|--------------------|----------|----------|---------|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-983-1 | FS25 | 95 | 103 | |
| 890-983-1 MS | FS25 | 92 | 94 | |
| 890-983-1 MSD | FS25 | 89 | 90 | |
| 890-983-2 | FS20 | 94 | 101 | |
| 890-983-3 | FS19 | 104 | 109 | |
| 890-983-4 | FS18 | 93 | 100 | |
| 890-983-5 | FS15 | 89 | 95 | |
| 890-983-6 | FS14 | 92 | 96 | |
| 890-983-7 | FS13 | 93 | 100 | |
| 890-983-8 | FS12 | 95 | 101 | |
| 890-983-9 | FS11 | 93 | 101 | |
| 890-983-10 | FS10 | 94 | 101 | |
| 890-983-11 | FS01 | 92 | 97 | |
| 890-983-12 | FS02 | 97 | 105 | |
| 890-983-13 | FS03 | 90 | 98 | |
| 890-983-14 | FS04 | 90 | 97 | |
| 890-983-15 | FS05 | 93 | 100 | |
| LCS 880-5671/2-A | Lab Control Sample | 91 | 96 | |

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-983-1

Project/Site: Big Eddy Unit 150

SDG: TE012920126

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| LCSD 880-5671/3-A | Lab Control Sample Dup | 93 | 100 | |
| MB 880-5671/1-A | Method Blank | 86 | 95 | |
| Surrogate Legend | | | | |
| 100 = 1 Chlorocotono | | | | |

1CO = 1-Chlorooctane OTPH = o-Terphenyl -

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5574/5-A

Analysis Batch: 5576

Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Prep Batch: 5574 MD MD

| | MR | MR | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 10:39 | 07/23/21 15:02 | 1 |
| | | | | | | | | |

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 62 - 172 26@7@1 12:79 26@7@1 1/:23 4-Bromofluorobenzene (Surr) 126 26@7@1 12:79 62 - 172 26@7@1 1/:23 154-, Bluorobenzene (Surr) 122

Lab Sample ID: MB 880-5601/5-A

Matrix: Solid

Analysis Batch: 5576

Prep Type: Total/NA Prep Batch: 5601 MD MD

| | IVID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | 07/23/21 14:19 | 07/24/21 02:04 | 1 |
| | | | | | | | | |

мв мв Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 117 62 - 172 26@7@1 14:19 26@4@1 23:24 62 - 172 154-, Eluorobenzene (Surr) 26037031 14:19 26@4@1 23:24 96

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-5601/1-A Matrix: Solid Prep Type: Total/NA Analysis Batch: 5576 Prep Batch: 5601

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1022 | | mg/Kg | | 102 | 70 - 130 | |
| Toluene | 0.100 | 0.09442 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08224 | | mg/Kg | | 82 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1744 | | mg/Kg | | 87 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08746 | | mg/Kg | | 87 | 70 - 130 | |
| | | | | | | | | |

| | LCS | LCS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 94 | | 62 - 172 |
| 154-, Bluorobenzene (Surr) | 92 | | 62 - 172 |

Eurofins Xenco, Carlsbad

Client Sample ID: Method Blank

QC Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

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

Lab Sample ID: LCSD 880-5601/2-A

Matrix: Solid

Analysis Batch: 5576

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

Prep Type: Total/NA

Prep Batch: 5601

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1231 | | mg/Kg | | 123 | 70 - 130 | 19 | 35 |
| Toluene | 0.100 | 0.09686 | | mg/Kg | | 97 | 70 - 130 | 3 | 35 |
| Ethylbenzene | 0.100 | 0.09021 | | mg/Kg | | 90 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1881 | | mg/Kg | | 94 | 70 - 130 | 8 | 35 |
| o-Xylene | 0.100 | 0.09010 | | mg/Kg | | 90 | 70 - 130 | 3 | 35 |
| | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 9i | | 62 - 172 |
| 154 Bluorobenzene (Surr) | 123 | | 62 - 172 |

Lab Sample ID: 890-983-1 MS Matrix: Solid

Analysis Batch: 5576

Client Sample ID: FS25 Prep Type: Total/NA Prep Batch: 5601

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|---------------|----------------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.00543 | | 0.100 | 0.09457 | | mg/Kg | | 89 | 70 - 130 | |
| Toluene | <0.00202 | U | 0.100 | 0.08346 | | mg/Kg | | 83 | 70 - 130 | |
| Ethylbenzene | 0.00863 | | 0.100 | 0.07850 | | mg/Kg | | 70 | 70 - 130 | |
| m-Xylene & p- | Xylene 0.00703 | | 0.200 | 0.1724 | | mg/Kg | | 83 | 70 - 130 | |
| o-Xylene | 0.00915 | F1 | 0.100 | 0.07933 | | mg/Kg | | 70 | 70 - 130 | |
| 1 | | | | | | | | | | |

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 123 | | 62 - 172 |
| 154 Buorobenzene (Surr) | 96 | | 62 - 172 |

Lab Sample ID: 890-983-1 MSD

Matrix: Solid

Analysis Batch: 5576

Client Sample ID: FS25 Prep Type: Total/NA Prep Batch: 5601

| Analysis Batom core | | | | | | | | | 1.10 | p Baton | . 000 . |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|---------|---------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.00543 | | 0.100 | 0.09070 | | mg/Kg | | 85 | 70 - 130 | 4 | 35 |
| Toluene | <0.00202 | U | 0.100 | 0.07954 | | mg/Kg | | 80 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.00863 | | 0.100 | 0.08050 | | mg/Kg | | 72 | 70 - 130 | 3 | 35 |
| m-Xylene & p-Xylene | 0.00703 | | 0.200 | 0.1509 | | mg/Kg | | 72 | 70 - 130 | 13 | 35 |
| o-Xylene | 0.00915 | F1 | 0.100 | 0.07475 | F1 | mg/Kg | | 66 | 70 - 130 | 6 | 35 |
| | | | | | | | | | | | |

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 98 | 62 - 172 |
| 154-, Bluorobenzene (Surr) | i 9 | 62 - 172 |

QC Sample Results

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

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

Lab Sample ID: MB 880-5671/1-A

Analysis Batch: 5739

Matrix: Solid

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

Prep Batch: 5671

| | IVID | IVID | | | | | | |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 11:37 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 11:37 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 11:37 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 07/26/21 16:18 | 07/28/21 11:37 | 1 |
| | | | | | | | | |

мв мв

MR MR

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|--------------|-----------------|---------|
| 1-Chlorooctane | i 8 | | 62 - 172 | 26@8@1 18:1i | 2608i 081 11:76 | 1 |
| o-Terphenyl | 9/ | | 62 - 172 | 26@8@1 18:1i | 2603i 031 11:76 | 1 |

Lab Sample ID: LCS 880-5671/2-A

Matrix: Solid

Analysis Batch: 5739

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

Prep Batch: 5671

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 741.4 74 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 851.3 mg/Kg 85 70 - 130

C10-C28)

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 91 | | 62 - 172 |
| o-Terphenyl | 98 | | 62 - 172 |

Lab Sample ID: LCSD 880-5671/3-A

Matrix: Solid

Analysis Batch: 5739

| Client Sa | mple ID: | Lab Con | trol Sami | ole Dup |
|-----------|----------|---------|-----------|---------|

Prep Type: Total/NA Prep Batch: 5671

LCSD LCSD %Rec. RPD Spike Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit 1000 772.9 77 70 - 130 20 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 897.0 mg/Kg 90 70 - 1305 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 97 62 - 172 1-Chlorooctane 62 - 172 o-Terphenyl 122

Lab Sample ID: 890-983-1 MS

Matrix: Solid

Analysis Batch: 5739

Client Sample ID: FS25 Prep Type: Total/NA

Prep Batch: 5671

| - | Sample | Sample | Spike | MS | MS | | | | %Rec. |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 996 | 849.3 | | mg/Kg | | 85 | 70 - 130 |
| Diesel Range Organics (Over | <50.0 | U | 996 | 898.6 | | mg/Kg | | 90 | 70 - 130 |

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

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

Lab Sample ID: 890-983-1 MS **Client Sample ID: FS25 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 5739 Prep Batch: 5671

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 93 62 - 172 o-Terphenyl 94 62 - 172

Lab Sample ID: 890-983-1 MSD **Client Sample ID: FS25**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5739** Prep Batch: 5671

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <50.0 U 996 830.2 83 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 865.2 <50.0 U mg/Kg 87 70 - 13020 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 62 - 172 1-Chlorooctane i 9 92 62 - 172 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-5466/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5555

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 247.5 mg/Kg 99 90 - 110

Lab Sample ID: MB 880-5608/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 5616

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 07/24/21 20:52

Lab Sample ID: LCS 880-5608/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5616

| | | Spike | LCS | LCS | | | | %Rec. | |
|----------|--|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | | 250 | 256.1 | | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-5608/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5616

Spike LCSD LCSD %Rec.

RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 253.9 mg/Kg 102 90 - 110

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Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-983-11 MS Client Sample ID: FS01 Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5616

Sample Sample Spike MS MS %Rec. Qualifier Analyte Result Added Result Qualifier Unit D %Rec Limits Chloride 246 252 485.1 mg/Kg 95 90 - 110

Client Sample ID: FS01 Lab Sample ID: 890-983-11 MSD Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5616

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Limits RPD Limit Analyte Result Result Qualifier Unit D %Rec Chloride 246 252 484.1 mg/Kg 90 - 110 0 20

Lab Sample ID: MB 880-5615/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5617

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 07/24/21 17:06 mg/Kg

Lab Sample ID: LCS 880-5615/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5617

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 269.0 108 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-5615/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5617

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 269.1 mg/Kg 108 90 - 110

Lab Sample ID: 890-983-6 MS Client Sample ID: FS14 Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 5617

Sample Sample Spike MS MS %Rec. Result Added Qualifier Analyte Result Qualifier Unit D %Rec Limits Chloride 265 250 526.2 mg/Kg 105 90 - 110

Lab Sample ID: 890-983-6 MSD

Matrix: Solid

Analysis Batch: 5617

MSD MSD %Rec. RPD Sample Sample Spike Qualifier Added Analyte Result Result Qualifier Limits RPD Limit Unit %Rec Chloride 265 250 526.9 mg/Kg 105 90 - 110 20

Eurofins Xenco, Carlsbad

Client Sample ID: FS14

Prep Type: Soluble

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-983-1

SDG: TE012920126

GC VOA

Prep Batch: 5574

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-5574/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 5576

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-983-1 | FS25 | Total/NA | Solid | 8021B | 5601 |
| 890-983-2 | FS20 | Total/NA | Solid | 8021B | 5601 |
| 890-983-3 | FS19 | Total/NA | Solid | 8021B | 5601 |
| 890-983-4 | FS18 | Total/NA | Solid | 8021B | 5601 |
| 890-983-5 | FS15 | Total/NA | Solid | 8021B | 5601 |
| 890-983-6 | FS14 | Total/NA | Solid | 8021B | 5601 |
| 890-983-7 | FS13 | Total/NA | Solid | 8021B | 5601 |
| 890-983-8 | FS12 | Total/NA | Solid | 8021B | 5601 |
| 890-983-9 | FS11 | Total/NA | Solid | 8021B | 5601 |
| 890-983-10 | FS10 | Total/NA | Solid | 8021B | 5601 |
| 890-983-11 | FS01 | Total/NA | Solid | 8021B | 5601 |
| 890-983-12 | FS02 | Total/NA | Solid | 8021B | 5601 |
| 890-983-13 | FS03 | Total/NA | Solid | 8021B | 5601 |
| 890-983-14 | FS04 | Total/NA | Solid | 8021B | 5601 |
| 890-983-15 | FS05 | Total/NA | Solid | 8021B | 5601 |
| MB 880-5574/5-A | Method Blank | Total/NA | Solid | 8021B | 5574 |
| MB 880-5601/5-A | Method Blank | Total/NA | Solid | 8021B | 5601 |
| LCS 880-5601/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5601 |
| LCSD 880-5601/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5601 |
| 890-983-1 MS | FS25 | Total/NA | Solid | 8021B | 5601 |
| 890-983-1 MSD | FS25 | Total/NA | Solid | 8021B | 5601 |

Prep Batch: 5601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-983-1 | FS25 | Total/NA | Solid | 5035 | |
| 890-983-2 | FS20 | Total/NA | Solid | 5035 | |
| 890-983-3 | FS19 | Total/NA | Solid | 5035 | |
| 390-983-4 | FS18 | Total/NA | Solid | 5035 | |
| 890-983-5 | FS15 | Total/NA | Solid | 5035 | |
| 890-983-6 | FS14 | Total/NA | Solid | 5035 | |
| 890-983-7 | FS13 | Total/NA | Solid | 5035 | |
| 390-983-8 | FS12 | Total/NA | Solid | 5035 | |
| 390-983-9 | FS11 | Total/NA | Solid | 5035 | |
| 890-983-10 | FS10 | Total/NA | Solid | 5035 | |
| 890-983-11 | FS01 | Total/NA | Solid | 5035 | |
| 890-983-12 | FS02 | Total/NA | Solid | 5035 | |
| 890-983-13 | FS03 | Total/NA | Solid | 5035 | |
| 890-983-14 | FS04 | Total/NA | Solid | 5035 | |
| 890-983-15 | FS05 | Total/NA | Solid | 5035 | |
| MB 880-5601/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5601/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5601/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 390-983-1 MS | FS25 | Total/NA | Solid | 5035 | |
| 890-983-1 MSD | FS25 | Total/NA | Solid | 5035 | |

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

GC Semi VOA

Prep Batch: 5671

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-983-1 | FS25 | Total/NA | Solid | 8015NM Prep | |
| 890-983-2 | FS20 | Total/NA | Solid | 8015NM Prep | |
| 890-983-3 | FS19 | Total/NA | Solid | 8015NM Prep | |
| 890-983-4 | FS18 | Total/NA | Solid | 8015NM Prep | |
| 890-983-5 | FS15 | Total/NA | Solid | 8015NM Prep | |
| 890-983-6 | FS14 | Total/NA | Solid | 8015NM Prep | |
| 890-983-7 | FS13 | Total/NA | Solid | 8015NM Prep | |
| 890-983-8 | FS12 | Total/NA | Solid | 8015NM Prep | |
| 890-983-9 | FS11 | Total/NA | Solid | 8015NM Prep | |
| 890-983-10 | FS10 | Total/NA | Solid | 8015NM Prep | |
| 890-983-11 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-983-12 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-983-13 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-983-14 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-983-15 | FS05 | Total/NA | Solid | 8015NM Prep | |
| MB 880-5671/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5671/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5671/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-983-1 MS | FS25 | Total/NA | Solid | 8015NM Prep | |
| 890-983-1 MSD | FS25 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5739

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-983-1 | FS25 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-2 | FS20 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-3 | FS19 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-4 | FS18 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-5 | FS15 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-6 | FS14 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-7 | FS13 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-8 | FS12 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-9 | FS11 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-10 | FS10 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-11 | FS01 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-12 | FS02 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-13 | FS03 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-14 | FS04 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-15 | FS05 | Total/NA | Solid | 8015B NM | 5671 |
| MB 880-5671/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5671 |
| LCS 880-5671/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5671 |
| LCSD 880-5671/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-1 MS | FS25 | Total/NA | Solid | 8015B NM | 5671 |
| 890-983-1 MSD | FS25 | Total/NA | Solid | 8015B NM | 5671 |

HPLC/IC

Leach Batch: 5466

| Lab Sample ID 890-983-1 | Client Sample ID FS25 | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|-----------------------------------|-----------------------|-------------------|--------------|-----------------|------------|
| 890-983-2 | FS20 | Soluble | Solid | DI Leach | |
| 890-983-3 | FS19 | Soluble | Solid | DI Leach | |

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

HPLC/IC (Continued)

Leach Batch: 5466 (Continued)

| Lab Sample ID Client Sample ID | | Prep Type | Matrix | Method | Prep Batch |
|--------------------------------|--------------------|-----------|--------|----------|------------|
| LCS 880-5466/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |

Analysis Batch: 5555

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 890-983-1 | FS25 | Soluble | Solid | 300.0 | 5466 |
| 890-983-2 | FS20 | Soluble | Solid | 300.0 | 5466 |
| 890-983-3 | FS19 | Soluble | Solid | 300.0 | 5466 |
| LCS 880-5466/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5466 |

Leach Batch: 5608

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-983-11 | FS01 | Soluble | Solid | DI Leach | _ |
| 890-983-12 | FS02 | Soluble | Solid | DI Leach | |
| 890-983-13 | FS03 | Soluble | Solid | DI Leach | |
| 890-983-14 | FS04 | Soluble | Solid | DI Leach | |
| 890-983-15 | FS05 | Soluble | Solid | DI Leach | |
| MB 880-5608/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5608/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5608/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-983-11 MS | FS01 | Soluble | Solid | DI Leach | |
| 890-983-11 MSD | FS01 | Soluble | Solid | DI Leach | |

Leach Batch: 5615

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-983-4 | FS18 | Soluble | Solid | DI Leach | |
| 890-983-5 | FS15 | Soluble | Solid | DI Leach | |
| 890-983-6 | FS14 | Soluble | Solid | DI Leach | |
| 890-983-7 | FS13 | Soluble | Solid | DI Leach | |
| 890-983-8 | FS12 | Soluble | Solid | DI Leach | |
| 890-983-9 | FS11 | Soluble | Solid | DI Leach | |
| 890-983-10 | FS10 | Soluble | Solid | DI Leach | |
| MB 880-5615/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5615/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5615/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-983-6 MS | FS14 | Soluble | Solid | DI Leach | |
| 890-983-6 MSD | FS14 | Soluble | Solid | DI Leach | |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-983-11 | FS01 | Soluble | Solid | 300.0 | 5608 |
| 890-983-12 | FS02 | Soluble | Solid | 300.0 | 5608 |
| 890-983-13 | FS03 | Soluble | Solid | 300.0 | 5608 |
| 890-983-14 | FS04 | Soluble | Solid | 300.0 | 5608 |
| 890-983-15 | FS05 | Soluble | Solid | 300.0 | 5608 |
| MB 880-5608/1-A | Method Blank | Soluble | Solid | 300.0 | 5608 |
| LCS 880-5608/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5608 |
| LCSD 880-5608/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5608 |
| 890-983-11 MS | FS01 | Soluble | Solid | 300.0 | 5608 |
| 890-983-11 MSD | FS01 | Soluble | Solid | 300.0 | 5608 |

Eurofins Xenco, Carlsbad

Analysis Batch: 5616

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-983-1

SDG: TE012920126

HPLC/IC

Analysis Batch: 5617

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-983-4 | FS18 | Soluble | Solid | 300.0 | 5615 |
| 890-983-5 | FS15 | Soluble | Solid | 300.0 | 5615 |
| 890-983-6 | FS14 | Soluble | Solid | 300.0 | 5615 |
| 890-983-7 | FS13 | Soluble | Solid | 300.0 | 5615 |
| 890-983-8 | FS12 | Soluble | Solid | 300.0 | 5615 |
| 890-983-9 | FS11 | Soluble | Solid | 300.0 | 5615 |
| 890-983-10 | FS10 | Soluble | Solid | 300.0 | 5615 |
| MB 880-5615/1-A | Method Blank | Soluble | Solid | 300.0 | 5615 |
| LCS 880-5615/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5615 |
| LCSD 880-5615/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5615 |
| 890-983-6 MS | FS14 | Soluble | Solid | 300.0 | 5615 |
| 890-983-6 MSD | FS14 | Soluble | Solid | 300.0 | 5615 |

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Client: WSP USA Inc.

P1orectjSite: / iBgEEd Unit 4y0

SD5: Gg04T9T04T2

Client Sample ID: FS06 Date Collecte7: -/ 20020MMM11 Date 4 eceiRe7: - / 20020MMv:0T Lab Sample ID: 89-59815M x atrid: Soli7

Job ID: 890-986-4

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | s nalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 0T:Ty | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 4T:70 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y722 | 03jT6jT4 43:00 | CH | XgN MID |
| Soluble | Analdsis | 600.0 | | 40 | уууу | 03jT7jT4 T0:04 | SC | XgN MID |

Lab Sample ID: 89-598150

x atrid: Soli7

Date Collecte7: -/ 20020MMMT6 Date 4 eceiRe7: - / 20020MMv:0T

Client Sample ID: FS0-

Patch Patch Dilztion Patch Arepare7 Arep yBpe уВре x etho7 4zn Factor 3 z mber orsnalBNe7 s nalBut Lab **G**otalj NA P1ep y06y y204 03jT6jT4 47:49 KL XgN MID **G**otalj NA 80T4/ Analdsis 03jT7jT4 0T:72 KL XgN MID 4 yy32 **G**otalj NA P1ep 804yNM P1ep 03jT2jT4 42:48 DM XgN MID y234 **G**otalj NA 804y/ NM 03jT8jT4 46:7T XgN MID Analdsis y369 AJ Soluble 03jT6jT4 43:00 XgN MID Leach DI Leach y722 СН XgN MID Soluble Analdsis 600.0 4 уууу 03jT7jT4 T0:02 SC

Client Sample ID: FSM9 Lab Sample ID: 89-598151 Date Collecte7: -/ 20020MM0:1M

Date 4 eceiRe7: -/ 20020MMv:0T

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|---------|---------|
| Arep yBpe | yBpe | x etho7 | 4zn | Factor | 3 z mber | or s naIBNe7 | snalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 06:03 | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 47:06 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y722 | 03jT6jT4 43:00 | CH | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | уууу | 03jT7jT4 T0:44 | SC | XgN MID |

Client Sample ID: FSMB Lab Sample ID: 89-59815T

Date Collecte7: - / 20020MM0:10

x atrid: Soli7

Date 4 eceiRe7: -/ 20020MMv:0T

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | or s nalBNe7 | s nalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 06:T8 | KL | XgN MID |
| Gotalj NA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 47:T7 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y243 | 03jT7jT4 48:74 | SC | XgN MID |

y243 03jT7jT4 48:72 SC

Client: WSP USA Inc.

P1orectjSite: / iBgEEd Unit 4y0

Client Sample ID: FSM6

Date Collecte7: -/ 20020MMD:19

Date 4 eceiRe7: -/ 20020MMv:0T

Job ID: 890-986-4 SD5: Gg 04T9T04T2

Lab Sample ID: 89-598156

x atrid: Soli7

| _ | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | or s nalBNe7 | s nalBut | Lab |
| Gotalj NA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 06:78 | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 47:77 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |

Client Sample ID: FSMT

Soluble

Date Collecte7: -/ 20020MMD:TM Date 4 eceiRe7: -/ 20020MMv:0T

Analdsis

600.0

Lab Sample ID: 89-59815/

XgN MID

x atrid: Soli7

| Page Page Page Page Page Page Page Page | x etho7 y06y 80T4/ | 4zn | Factor | 3 z mber y 204 | or s nalBNe7 03jT6jT4 47:49 | s nalBut KL | Lab Xq N MID |
|---|--------------------------|--------------------------------|------------------|----------------------------------|---|---|---|
| | , , | | | y204 | 03jT6jT4 47:49 | KL | XaN MID |
| Analdsis | 80T4/ | | | | | | 5 |
| | | | 4 | yy32 | 03jT7jT4 07:09 | KL | XgN MID |
| P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 4y:0y | AJ | XgN MID |
| each | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |
| Analdsis | 600.0 | | 4 | y243 | 03jT7jT4 48:yT | SC | XgN MID |
| \r .e | naldsis each | naldsis 804y/ NM each DI Leach | naldsis 804y/ NM | naldsis 804y/ NM 4 each DI Leach | naldsis 804y/ NM 4 y369 each DI Leach y24y | naldsis 804y/ NM 4 y369 03jT8jT4 4y:0y each DI Leach y24y 03jT6jT4 49:46 | naldsis 804y/ NM 4 y369 03jT8jT4 4y:0y AJ each DI Leach y24y 03jT6jT4 49:46 SC |

Client Sample ID: FSMI

Date Collecte7: -/ 20020MMI:MM Date 4 eceiRe7: -/ 20020MMv:0T

Lab Sample ID: 89-59815

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | s nalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 07:60 | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| Gotalj NA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 4y:T2 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | у | y243 | 03jTyjT4 T4:4y | SC | XgN MID |

Client Sample ID: FSM0

Date Collecte7: -/ 20020MMI:MT Date 4 eceiRe7: -/ 20020MMv:0T Lab Sample ID: 89-598158 x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|---------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | snalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 07:y0 | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 4y:73 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y243 | 03jT7jT4 49:43 | SC | XgN MID |

Client: WSP USA Inc.

P1orectjSite: / iBgEEd Unit 4y0

Job ID: 890-986-4 SD5: Gg 04T9T04T2

Client Sample ID: FSMM

Date Collecte7: -/ 20020MMI:M8 Date 4 eceiRe7: -/ 20020MMv:0T Lab Sample ID: 89-598159

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|---------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | or s naIBNe7 | snalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 0y:44 | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 42:03 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y243 | 03jT7jT4 49:62 | SC | XgN MID |

Client Sample ID: FSM

Date Collecte7: -/ 20020MM1:0M Date 4 eceiRe7: -/ 20020MMv:0T Lab Sample ID: 89-59815M

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|------------------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | s nalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 0y:6T | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| G otaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 42:T8 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y24y | 03jT6jT4 49:46 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y243 | 03jT7jT4 49:74 | SC | XgN MID |

Client Sample ID: FS-M

Date Collecte7: -/ 20020MMT:T0
Date 4 eceiRe7: -/ 20020MMv:0T

Lab Sample ID: 89-59815MM

x atrid: Soli7

| | Patch | Patch | Dilztion Patch Arepare7 | | | | | |
|-----------|----------|-------------|-------------------------|--------|----------|----------------|---------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | snalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 02:yy | KL | XgN MID |
| Gotalj NA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 43:09 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y208 | 03jT6jT4 42:66 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y242 | 03jT7jT4 T4:09 | SC | XgN MID |

Client Sample ID: FS-0

Date Collecte7: -/ 20020MMT:TT Date 4 eceiRe7: -/ 20020MMv:0T Lab Sample ID: 89-59815W0

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-------------------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | s nalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| G otalj NA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 03:4y | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 43:60 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y208 | 03jT6jT4 42:66 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y242 | 03jT7jT4 T4:Ty | SC | XgN MID |

Client: WSP USA Inc. Job ID: 890-986-4 P1orectjSite: / iBgEEd Unit 4y0 SD5: Gg 04T9T04T2

Client Sample ID: FS-1

Lab Sample ID: 89-59815W1

x atrid: Soli7

Date Collecte7: -/ 20020MMT:T/ Date 4 eceiRe7: -/ 20020MMv:0T

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|-----------|----------|-------------|-----|----------|----------|----------------|---------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | snalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 03:62 | KL | XgN MID |
| Gotalj NA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| Gotalj NA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 43:y4 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y208 | 03jT6jT4 42:66 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y242 | 03jT7jT4 T4:64 | SC | XgN MID |

Client Sample ID: FS-T

Date Collecte7: -/ 20020MMT:T9 Date 4 eceiRe7: -/ 20020MMv:0T Lab Sample ID: 89-59815MT

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | Arepare7 | | |
|------------------|----------|-------------|-----|----------|----------|----------------|----------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | s nalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| GotaljNA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 03:y3 | KL | XgN MID |
| Gotalj NA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| G otaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 48:4T | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y208 | 03jT6jT4 42:66 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | 4 | y242 | 03jT7jT4 T4:62 | SC | XgN MID |

Client Sample ID: FS-6

Date Collecte7: -/ 20020MMT:6M

Date 4 eceiRe7: -/ 20020MMv:0T

Lab Sample ID: 89-59815W6

x atrid: Soli7

| | Patch | Patch | | Dilztion | Patch | | | |
|-----------|----------|-------------|-----|----------|----------|----------------|---------|---------|
| Arep yBpe | уВре | x etho7 | 4zn | Factor | 3 z mber | orsnalBNe7 | snalBut | Lab |
| GotaljNA | P1ep | y06y | | | y204 | 03jT6jT4 47:49 | KL | XgN MID |
| Gotalj NA | Analdsis | 80T4/ | | 4 | yy32 | 03jT7jT4 08:48 | KL | XgN MID |
| GotaljNA | P1ep | 804yNM P1ep | | | y234 | 03jT2jT4 42:48 | DM | XgN MID |
| GotaljNA | Analdsis | 804y/ NM | | 4 | y369 | 03jT8jT4 48:66 | AJ | XgN MID |
| Soluble | Leach | DI Leach | | | y208 | 03jT6jT4 42:66 | SC | XgN MID |
| Soluble | Analdsis | 600.0 | | у | y242 | 03jTyjT4 T0:72 | SC | XgN MID |

LaboratorB4 eferenceu:

XgNMID, gu10 = ns Xencof MieIanef 4T44 W. Flo1eIea Avef MieIanef GX 39304f eGL (76T)307-y770

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-986-4

 P1orectjSite: / iB g EEd Unit 4y0
 SD5: Gg 04T9T04T2

Laboratory: Eurofins Xenco, Midland

 $Unless othe \verb§1wise§ noteE, all analytes fo§ this labo§ 1 ato§ 1 d we§ 1 e cove§ 1 e EunEe§ 1 each acc§ 1 e Eitationjce§ 1 tification below. \\$

| Authority | | rogram | Identification Number | Expiration Date | | |
|------------------------|----------------------------------|----------------------------------|---|--------------------------|--|--|
| Gexas | L | g3AP | G407N07700-T0-T4 | 02-60-TT | | |
| Che followinB analdtes | a 10 incluEoE in this 10 no 1t h | ut the laho1ato1d is not ce1tifi | eEbd the Bove1ninBautho1itd. Ghis list ma | ad incluEo analdtoa fa | | |
| the aBencd Eoes not of | | at the labolato a 13 not ce lim | ec bu the bove initid authority. Glis list ma | au iliciume allaidles ic | | |
| | | Mat1ix | Analdte | au include analules ic | | |
| the aBencd Eoes not of | fe1 ce1tification. | | | au include analotes ic | | |

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Method Summary

1 © ent WS PWU leAc

Sroji AnWini : Blg Tddy Peln450

Job ID: 890-986-4

WD.: GT04E9E04E2

| Method | Method Description | Protocol | Laboratory |
|--------------|--|----------|------------|
| 80E4B | ao@n@ mrgOelA1op uosed(). 1X | Wt 8V2 | NTMRID |
| 8045B MR | Dli (i C3 Qegi mrgQelA()D3 mX). 1 X | Wt 8V2 | NTMRID |
| 600₺ | Ueloe(, loe 1 hrop OrogrOuhy | R1Ut t | NTMRID |
| 5065 | 1 @(id Wy(nip Ssrgi Oed GrOu | Wt 8V2 | NTMRID |
| 8045MR Sri u | RIAroi xrrOArloe | Wt 8V2 | NTMRID |
| DI Li OAh | Di loelzi d t Oni r Li OAhleg SroAi dsri | UWGR | NTMRID |

Protocol References:

UWGR = UWGR leri reOtloeOC

R1 Ut t = "Ri mhod(For 1 hi p IACCUeO)(I(mft Oir Ued t O(ni(", TSU-200/V-79-0E0, ROrAh 4986 Ued Wash(i qsi en 3 i vl(loe(c Wt 8V2 = "G (nRi nhod(For TvOsOtleg Wold) t O(ni, Shy(IAOO) hi p IACORi nhod(", GhIrd TdIrloe, Movi p bi r 4982 Ued In(PudOni(c))) has a simple of the state o

Laboratory References:

NTM RID = Tsrofle(Ni eAo, RId@ed, 4E44 t cF@rldOUvi , RId@ed, GN 79704, GTL)V6EX70V-5VV0

Tsrofle(Ni eAo, 1 OrCbOd

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Sample Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-983-1

SDG: TE012920126

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-983-1 | FS25 | Solid | 07/22/21 11:33 | 07/22/21 16:24 | - 4 |
| 890-983-2 | FS20 | Solid | 07/22/21 11:45 | 07/22/21 16:24 | - 4 |
| 890-983-3 | FS19 | Solid | 07/22/21 12:31 | 07/22/21 16:24 | - 4 |
| 890-983-4 | FS18 | Solid | 07/22/21 12:32 | 07/22/21 16:24 | - 4 |
| 890-983-5 | FS15 | Solid | 07/22/21 12:39 | 07/22/21 16:24 | - 4 |
| 890-983-6 | FS14 | Solid | 07/22/21 12:41 | 07/22/21 16:24 | - 4 |
| 890-983-7 | FS13 | Solid | 07/22/21 13:11 | 07/22/21 16:24 | - 4 |
| 890-983-8 | FS12 | Solid | 07/22/21 13:14 | 07/22/21 16:24 | - 4 |
| 890-983-9 | FS11 | Solid | 07/22/21 13:18 | 07/22/21 16:24 | - 4 |
| 890-983-10 | FS10 | Solid | 07/22/21 13:21 | 07/22/21 16:24 | - 4 |
| 890-983-11 | FS01 | Solid | 07/22/21 14:42 | 07/22/21 16:24 | - 4 |
| 890-983-12 | FS02 | Solid | 07/22/21 14:44 | 07/22/21 16:24 | - 4 |
| 890-983-13 | FS03 | Solid | 07/22/21 14:47 | 07/22/21 16:24 | - 4 |
| 890-983-14 | FS04 | Solid | 07/22/21 14:49 | 07/22/21 16:24 | - 4 |
| 890-983-15 | FS05 | Solid | 07/22/21 14:51 | 07/22/21 16:24 | - A |

| S | ENCO | | Hobs NM (575-3 | ton,TX (281) 240- land,TX (432-704- | 4200 Dalla 5440) EL × AZ (480- | s,TX (214) Paso,TX (9 |) 902-0300 915)585-34 Atlanta.G/ | 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 Lubbook,TX (806)794-1296 Hobbs NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-520-2000) | | www.xenco.com Page | of |
|---|--|--|---|---|---|--------------------------|--|---|--|----------------------------|---|
| Project Manager: | Dan Moir | | | Bill to: (if different) | ent) K | Kyle Littrell | | | | Work Order Comments | 8 |
| | WSP USA | | | Company Name: | | XTO Energy | ly | Pro | Program: UST/PST RP | □rownfields | CRC Deerfund |
| | 3300 North A Street | et | | Address: | | 522 W. Mermod St | rmod St. | | State of Project: | | |
| te ZIP: | Midland, TX 79705 | 5 | | City, State ZIP: | | arisbad, N | Carlsbad, NM 88220 | Rep | Reporting:Level II evel III | □\$T/UST | DRP Upvel IV |
| | (432) 236-3849 | | Ema | Email: Jeremy.Hill@wsp.com, Dan.Moir@wsp.com | wsp.com | . Dan.Mo | ir@wsp.c | | Deliverables: EDD | ADaPT [] | Other: |
| Name: | B. Ell | Unit 1 | 22 | Turn Around | | | | ANALYSIS REQUEST | | W | Work Order Notes |
| Project Number: | | | R | Routine [] | | | | | | 22 | and tall |
| P.O. Number: | In. NAM. | 588 HS8 HEOR WAN | Ŋi. | Rush: 3 ds | | | | | | 108 | 08017 1001 |
| Sampler's Name: | Jer | Jeremy Hill | | Due Date: 7/33/20 | | | | | - | AFE | |
| SAMPLE RECEIPT | IPT Temp Blank | Yes) | No Wet ice: | XES No | | - | | | | Ew. 9 | EW 9031.01563. EXP.01 |
| Temperature (°C): | 9.6/0. | £ | Thermometer ID | ter ID | iners | |) | | | | |
| Received Intact: | Search Control | No 1 | I NW 1 | 8 | onta | 17.0 | 300. | | Market Ma | | |
| Sample Custody Seals: | | | Total Containers: | rs: | r of | | e (EP | 000000 | | lab | lab, if received by 4:30pm |
| Sample Identification | | Matrix Sampled | ed Sampled | Depth | Numbe | TPH (EI | Chlorid | | | Sa | Sample Comments |
| FSOS | | S 7100/1 | 11 1133 | 14 | | | X | | | C | Capant |
| FSOO | | | 1145 | | | - | E | | | | |
| FSIT | | | 1231 | | | | | | | | |
| 815-1 | | | 1272 | | | | | | | | |
| F515 | | | 1238 | | | | | | | | |
| FSIK | | | 1966 | | | E | | | | | |
| F5/3 | | | 1311 | | | E | | | | | |
| FSIA | | | 1314 | | | E | | | | | |
| FSII | | 1 | 1318 | | | | / | | | | |
| F510 | | * | 1331 | 4 | < | < | - | | | | |
| Total 200.7 / 6010 Circle Method(s) a | | 0: be analyzed | 8RCRA 1 | RCRA 13PPM Texas 11 A | RCRA S | AISD AS E | Ba Be B Cd Ca Ba Be Cd Cr Co | Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Mn Mo Ni K Se Ag Ag TI U | SiO2 | Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 · Hg |
| Notice: Signature of this desement and reinquistrant or samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract 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 loss 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 | coument and relinquist fable only for the cost of the cost of \$75.00 will be ap | ment or samples of samples and sh piled to each proj | constitutes a valid all not assume an ect and a charge of | d purchase order fr y responsibility for of \$5 for each samp | om client co any losses le submitte | or expense of expense | Xenco, its a as incurred but not ana | newhend reinquistrant or samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 the control 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 the control of samples are the sample and the sample are the sample and the control of the | ors. It assigns standard terms and conditions as are due to circumstances beyond the control be enforced unless previously negotiated. | | |
| Relinquished by: (Signature) | (Signature) | Recei | Received by: Sign. | (Signature) | | Date/Time | O O | Relinquished by: (Signature) | Received by | Received by: (Signature) | Date/Time |
| 100 | l l | Sup | ex to | | 7.2 | 12.2 | 111024 | | | | |
| 3 | | | 100 | | | | | | | | |
| 5 | | | | | | | o | | | | |

Address: Company Name: Project Manager:

> WSP USA Dan Moir

3300 North A Street

| Email: Leremy Hill@wsp.com Dan Moir@wsp.com | City, State ZIP: Carlsbad, NM 88220 | Address: 522 W. Mermod St. | Company Name: XTO Energy | Bill to: (if different) Kyle Littrell | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | Chain of Custody |
|---|--------------------------------------|----------------------------|--|---------------------------------------|--|------------------|
| Deliverables: EDD ADaPT Other: | Reporting:Level III PT/UST RP Pel IV | State of Project: | Program: UST/PST RP Drownfields RC Experiund | Work Order Comments | 69-3334 4-1296 a,FL(813-620-2000) www.xenco.com Page → of | Work Order No: |

| Sih | Relinquished by: (Signature) | totice: 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 josses 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. | Total 200.7 / 6010 Circle Method(s) a | | | F505 | PSOY | E503 | FSOD | FSOI | Sample Identification | Sample Custody Seals: | Cooler Custody Seals: | Received Intact: | SAMPLE RECEIPT Temperature (°C): | Sampler's Name: | P.O. Number: | Project Number: | Project Name: | Phone: | City, State ZIP: |
|--------------|------------------------------|---|--|-----------|----|------|------|------|------|---------|-----------------------|----------------------------|------------------------------------|------------------|----------------------------------|-----------------|------------------|-----------------|------------------|--|--------------------|
| 7 | : (Signature) | document and relinguing liable only for the coserge of \$75.00 will be | otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | | | | | | | | tification | IS: Yes No | s: Yes No | Yes | | J | The NR. | 75013931006 | BIG Edd | (432) 236-3849 | Midland, TX 79705 |
| () (|) Z | ishment of sar st of samples a applied to eac | 020: to be analy: | | | e | | |) | 5 7 | Matrix Si | N/A | N/A | No | Temp Blank: Yes | Jeremy Hill | macay! | 1006 | Un.+ | | 705 |
| 108 CV | eceived by | nples constitut nd shall not as n project and a | 00 | 4 | | × | | 973 | -) | 7/22/21 | Date Sampled S | Total Co | Correction | 0 | 8 | | NEW JOHN 824 882 | | 150 | | |
| 1 | Received by (Signature) | es a valid purc sume any resp charge of \$5 fo | 8RCRA 13PP TCLP/SPLP | | | 1341 | 1444 | しかト | HAH | C+11 | Time Sampled | Total Containers: | Correction Factor: | | Wet ice: | Due Da | Rush: | Routine | Turn | Email: Je | Ω |
| | | hase order fron onsibility for ar or each sample | RCRA 13PPM Texas 11 AISb As Ba Be B Cd Ca Cr Co Co TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb M | | | • | | | | 14 | Depth | | | | Yes No | Due Date:7/3% | 3 dry | | Turn Around | Email: Jeremy.Hill@wsp.com, Dan.Moir@wsp.com | City, State ZIP: |
| 7.27.21 1624 | Da | n client comp ny losses or submitted to | 1 AI Sb As CRA Sb As | 4 | H | 1 | | | - | ~ | Numb TPH (E | J. D. S | 1 4 5 1 | | ners | _ | | | | /sp.com, D | |
| 1.2.1 | Date/Time | expenses in Xenco, but | As Ba Be As Ba Be | | Ħ | 1 | | E | 2 | X | втех (| EPA | 0=8 | 021) | | | | | | an.Moir@ | Carlsbad, NM 88220 |
| 62 | 1 | o, its affiliat curred by th not analyze | Be B Cd 3e Cd Cr | | 11 | 1 | = | F | - | 8 | Chloric | le (E | PA 3 | 0.00 |) | _ | - | | | wsp.com | 88220 |
| | Relinquished by | tes and subco ne client if suci d. These term | d Ca Cr (| | | | | į | | | | | | | _ | | | | ANA | | |
| | | ntractors. It a n losses are c s will be enfo | Cr Co Cu Fe Cu Pb Mn Mc | | | | ŀ | | | | | | | | | | | | ANALYSIS RE | | |
| | (Signature) | ussigns stand lue to circum: rced unless p | n Mo Ni Se Ag TI U | | | + | - | - | H | | - | _ | | | | - | _ | | REQUEST | Deliv | Repo |
| | R | s. It assigns standard terms and condi- are due to circumstances beyond the c enforced unless previously negotiated. | Ph Mg Mn Mo Ni K Se Ag SiO2 Ni Se Ag Ti U | | | | | - | | - | | | | | | | | | | Deliverables: EDD | Reporting:Level II |
| | Received by: (Signature) | d conditions id the control otiated. | K Se A | | | | | | | | | | | | | | | | |) o | evel |
| | (Signatu | 1 | g SiO2 N | | H | + | | | | | | - | | | | | - | | | ADaPT | Tanana . |
| 1 | re) | | Na Sr TI Sn U V 1631 / 245.1 / 7470 | | | | | | | 60 | San | lab, i | TAT start | | En as | 新 | 1000 | 22 | Wo | F | IST |
| | Date/Time | | Sr TI Sn U V Zn 1245.117470 (7471: Hg | | | • | | | | Copert | Sample Comments | lab, if received by 4:30pm | TAT starts the day recevied by the | | EN ADOLL DISES EXPLO | | 108071- | 201001 | Work Order Notes | Other | □RP Ubvel IV □ |
| 1 | 1_ | | - | للـــا لا | 11 | 1-1- | 1 | 1 | P | ane | 34 0 | F 36 | | 1 | | | | | 1 | 1 | |

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Job Number: 890-983-1 SDG Number: TE012920126

List Source: Eurofins Xenco, Carlsbad

Login Number: 982 List Number: 1 Creator: Clifton, Cloe

Client: WSP USA Inc.

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

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-983-1 SDG Number: TE012920126

List Source: Eurofins Xenco, Midland
List Number: 3
List Creation: 07/32/31 03:08 PM

Creator: Phillips, Kerianna

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-985-1

Laboratory Sample Delivery Group: TE012920126

Client Project/Site: Big Eddy Unit 150

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 7/26/2021 10:32:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

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www.eurofinsus.com/Env

Released to Imaging: 2/28/2022 4:36:12 PM

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

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

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Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-985-1

SDG: TE012920126

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-985-1 Project/Site: Big Eddy Unit 150 SDG: TE012920126

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**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

Too Numerous To Count **TNTC**

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-985-1

SDG: TE012920126

Job ID: 890-985-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-985-1

Receipt

The samples were received on 7/23/2021 1:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°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.

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

Eurofins Xenco, Carlsbad 7/26/2021

Matrix: Solid

Client Sample Results

Sroji An/Wini: Blg Tddy Peln460

1 Clent WS PWU leAc Job ID: 890-986-4 WD.: GT04E9E04E2

Client Sample ID: FS24 Lab Sample ID: 890-985-1

Date Collected: 07/23/21 10:17 Date Received: 07/23/21 13:08

Sample Depth: 4 - 8

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|---------------------|--------|---|----------------|-----------------|---------|
| Bi e5i ei | z0@0E00 | P | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| CoQi ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| Trhy®i e5i ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| <-XyCei & p-XyCei | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| o-Xy©ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| Xy©eis, GonaC | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| Gora CBGTX | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 43:68 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 114 | | 75 - 1+5 | | | 57034031 11/55 | 57032031 1+/: 9 | 1 |
| 1,4-Difluorobenzene (Surr) | 155 | | 75 ₋ 1+5 | | | 57@4@1 11/55 | 57@2@1 1+/: 9 | 1 |
| - Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| . aso@ei Raegi OrgaelAs (. RO)-12-140 | z60@ | P | 6000 | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:40 | 4 |
| Dli si CRaegi OrgaelAs (Ovi r 1 40-1 E8) | z60@ | Р | 6000 | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:40 | 4 |
| OlCRaegi OrgaelAs (Ovi r 1 E8-1 32) | z60@ | Р | 60@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:40 | 4 |
| Gora CGSH | z60@ | Р | 60@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:40 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 94 | | 75 ₋ 1+5 | | | 57032031 56/54 | 57032031 17/15 | 1 |

| Method: 300.0 - Anions, Id | on Chromatography - Sol | luble | | | |
|----------------------------|-------------------------|-------------|------|---|------|
| Analyte | Result Qu | ıalifier RL | Unit | D | Pres |

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epared Analyzed Dil Fac 6@0 0K/E2/E4 4K:E2 Chloride 149 < g/mg

75 - 1+5

Client Sample ID: FS22 Date Collected: 07/23/21 10:02 Date Received: 07/23/21 13:08

Sample Depth: 4 - 8

o-8erThenpl

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|---------------------|--------|---|----------------|----------------|---------|
| Bi e5i ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| GoQi ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| Trhytoi e5i ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| <-XyCei & p-XyCei | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| o-Xy©ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| Xy©eis, GonaC | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| Gora CBGT X | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:48 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 75 - 1+5 | | | 57@4@1 11/55 | 57082081 14/19 | 1 |
| 1,4-Difluorobenzene (Surr) | 155 | | 75 ₋ 1+5 | | | 57@4@1 11/55 | 57032031 14/19 | 1 |

57@2@1 56/54

57@2@1 17/15

Lab Sample ID: 890-985-2

Matrix: Solid

Job ID: 890-986-4

Client Sample Results

1 Cent WS PWU leAc

Client Sample ID: FS22

Sroji An/Wni : Blg Tddy Peln460

WD.: GT04E9E04E2

Lab Sample ID: 890-985-2

Matrix: Solid

Date Collected: 07/23/21 10:02 Date Received: 07/23/21 13:08

Sample Depth: 4 - 8

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------------|--------------|-----------|---------------------|--------|---|----------------|----------------|---------|
| . aso@ei Raegi OrgaelAs | z79@ | P | 79@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:34 | 4 |
| (. RO)-12-140 | | | | | | | | |
| Dli si CRaegi OrgaelAs (Ovi r | z79@ | P | 79@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:34 | 4 |
| 1 40-1 E8) | | | | | | | | |
| OlCRaegi OrgaelAs (Ovi r 1 E8-1 32) | z79@ | P | 79@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:34 | 4 |
| Obra CCSH | z79¢9 | Р | 79:9 | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4K:34 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 9: | | 75 - 1+5 | | | 57@2@1 56/54 | 57032031 17/+1 | 1 |
| o-8erThenpl | 151 | | 75 ₋ 1+5 | | | 57@2@1 56/54 | 57@2@1 17/+1 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 24.2 | | 7.92 | < g/mg | | | 0K/E2/E4 4K:3E | 4 |

Client Sample ID: FS21 Lab Sample ID: 890-985-3 Matrix: Solid

Date Collected: 07/23/21 11:51 Date Received: 07/23/21 13:08

Sample Depth: - 5.5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|-------------------------------|--|----------------------------|----------|--|--|-------------------|
| Bi e5i ei | z0@0E00 | P | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| GoQi ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| Tmly®bie5iei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| <-XyCei & p-XyCei | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| o-Xy©ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| Xy©eis, GonaC | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| Gona CBGT X | z0@0704 | Р | 0@0704 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:39 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 1+3 | S1y | 75 - 1+5 | | | 57@4@1 11/55 | 57@2@1 14/+6 | 1 |
| 1,4-Difluorobenzene (Surr) | 153 | | 75 ₋ 1+5 | | | 57@4@1 11/55 | 57@2@1 14/+6 | 1 |
| Method: 8015B NM - Diesel Rang Analyte | Result | Qualifier | RL | Unit | <u>D</u> | Prepared | Analyzed | |
| Marthaula 0045D NRA - Diagraf Danie | O | DO) (OO) | | | | | | |
| | | Qualifier | RL 60თ | | <u>D</u> | Prepared 0K/E2/E4 09:07 | Analyzed 0K/E2/E4 48:4E | Dil Fac |
| Analyte . aso0ei Raegi OrgaelAs | Result | Qualifier P | | | <u>D</u> | | | |
| Analyte . aso@ei Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) | Result z6000 | Qualifier P | 60d | < g/mg | <u>D</u> | 0K/E2/E4 09:07 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E | 4 |
| Analyte . aso@i Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OICRaegi OrgaelAs (Ovi r 1E8-132) | Result z60d z60d z60d | Qualifier P P | 60a 60a | < g/mg < g/mg < g/mg | <u>D</u> | 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E | 4 |
| Analyte . aso@i Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OICRaegi OrgaelAs (Ovi r 1E8-132) | Result z6000 | Qualifier P P | 60d | < g/mg | <u>D</u> | 0K/E2/E4 09:07 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E | 4 |
| Analyte . aso@i Raegi OrgaelAs (. RO)-12-140 | Result z60d z60d z60d | Qualifier P P P | 60a 60a | < g/mg < g/mg < g/mg | <u>D</u> | 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E | 4 |
| Analyte . aso@i Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OlCRaegi OrgaelAs (Ovi r 1E8-132) GbraCGSH | Result z60d z60d | Qualifier P P P | 60d 60d 60d | < g/mg < g/mg < g/mg | <u>D</u> | 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E | 4 4 Dil Fac |
| Analyte . aso@ei Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OICRaegi OrgaelAs (Ovi r 1E8-132) GoraCCSH | Result | Qualifier P P P | 60d 60d 60d 60d Limits | < g/mg < g/mg < g/mg | <u>D</u> | 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 Prepared | 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E Analyzed | 2 2 2 2 Dil Fac |
| Analyte . aso@ei Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OlCRaegi OrgaelAs (Ovi r 1E8-132) CoraCCSH Surrogate 1-Chlorooctane | Result | P P Qualifier S1- Soluble | 600 600 600 600 Limits 75 - 1+5 | < g/mg < g/mg < g/mg | <u>D</u> | 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 Prepared 57082081 56/54 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E Analyzed 57082081 19/13 | 4 4 4 Dil Fac |
| Analyte . aso@ei Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OlCRaegi OrgaelAs (Ovi r 1E8-132) CoraCCSH Surrogate 1-Chlorooctane o-8erThenpl | Result | Qualifier P P P Qualifier S1- | 600 600 600 600 Limits 75 - 1+5 | < g/mg < g/mg < g/mg | <u>D</u> | 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 0K/E2/E4 09:07 Prepared 57082081 56/54 | 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E 0K/E2/E4 48:4E Analyzed 57082081 19/13 | 4 |

Turofles Xi eAo, 1 ar@bad

1 Cent WS PWU leAc Sroji An/Wni : Blg Tddy Peln460 Job ID: 890-986-4

WD.: GT04E9E04E2

Matrix: Solid

Lab Sample ID: 890-985-4

Client Sample ID: FS16

Date Collected: 07/23/21 11:55 Date Received: 07/23/21 13:08

Sample Depth: - 5.5

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|------------------------|--|----------------------|----------|--|--|---------|
| Bi e5i ei | z0d0499 | P | 0@0499 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | 4 |
| ⊙oQiei | z0@0499 | Р | 0@0499 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | 4 |
| Tmlyobi e5i ei | z0@0499 | Р | 0დ0499 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | 4 |
| <-XyCei & p-XyCei | z0@0398 | Р | 0ω0398 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | |
| o-Xy©ei | z0@0499 | Р | 0@0499 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | 4 |
| Xy©eis, GonaC | z0@0398 | Р | 0დ0398 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | 4 |
| Gorna CBGTX | z0@0398 | Р | 0ф0398 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 47:69 | |
| | 0/5 | Ovalifian | Limits | | | Prepared | Analyzed | Dil Fac |
| Surrogate | %Recovery | Quaimer | LIIIIII | | | | | |
| | | Quaimer | 75 - 1+5 | | | 57034031 11/55 | 57032031 14/: 6 | |
| Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran | 159 15+ | | | | | | | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran | 159 15+ ge Organics (D | RO) (GC) | 75 - 1+5 75 - 1+5 | Unit | D | 57@4@1 11/55 57@4@1 11/55 | 57@2@1 14/: 6 57@2@1 14/: 6 | Dil Fac |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte | 159 15+ ge Organics (D | RO) (GC) Qualifier | 75 - 1+5 | <u>Unit</u> < g/mg | <u>D</u> | 57@4@1 11/55 | 57082081 14/: 6 | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte . aso@i Raegi OrgaelAs (. RO)-12-140 | 159 15+ ge Organics (DI Result z60d) | RO) (GC) Qualifier | 75 - 1+5 75 - 1+5 RL 60:0 | < g/mg | <u>D</u> | 57@4@1 11/55 57@4@1 11/55 Prepared 0K/E2/E4 09:07 | 57@2@1 14/: 6 57@2@1 14/: 6 Analyzed 0K/E2/E4 48:33 | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte . asotei Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r | 159 15+ ge Organics (D | RO) (GC) Qualifier | 75 - 1+5 75 - 1+5 RL | | <u>D</u> | 57@4@1 11/55 57@4@1 11/55 Prepared | 57@2@1 14/: 6 57@2@1 14/: 6 Analyzed | 4 |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte aso@i Raegi OrgaelAs (, RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) | 159 15+ ge Organics (DI Result z60d) | RO) (GC) Qualifier P | 75 - 1+5 75 - 1+5 RL 60:0 | < g/mg | <u> </u> | 57@4@1 11/55 57@4@1 11/55 Prepared 0K/E2/E4 09:07 | 57@2@1 14/: 6 57@2@1 14/: 6 Analyzed 0K/E2/E4 48:33 | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte . aso@i Raegi OrgaelAs (. RO)-12-140 | 159 15+ ge Organics (DI Result z60@ z60@ | RO) (GC) Qualifier P | 75 - 1+5 75 - 1+5 RL 600 | < g/mg | <u> </u> | 57@4@1 11/55 57@4@1 11/55 Prepared 0K/E2/E4 09:07 | 57@2@1 14/: 6 57@2@1 14/: 6 Malyzed 0K/E2/E4 48:33 | |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte aso@i Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OICRaegi OrgaelAs (Ovi r 1E8-132) | 759 154 ge Organics (Di Result 260d 260d | RO) (GC) Qualifier P P | 75 - 1+5 75 - 1+5 RL 60d 60d 60d | < g/mg < g/mg < g/mg | <u>D</u> | 57@4@1 11/55 57@4@1 11/55 Prepared 0k/e2/e4 09:07 0k/e2/e4 09:07 | 57082081 14/: 6 57082081 14/: 6 Analyzed 0K/E2/E4 48:33 0K/E2/E4 48:33 | Dil Fac |
| 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte aso@i Raegi OrgaelAs (. RO)-12-140 Dli si CRaegi OrgaelAs (Ovi r 140-1E8) OICRaegi OrgaelAs (Ovi r 1E8-132) CoraCCSH | 759 159 15+ ge Organics (Di Result 260d 260d 260d 260d | RO) (GC) Qualifier P P | 75 - 1+5 75 - 1+5 RL 60d 60d 60d 60d | < g/mg < g/mg < g/mg | <u>D</u> | 57@4@1 11/55 57@4@1 11/55 Prepared 0k/E2/E4 09:07 0k/E2/E4 09:07 0k/E2/E4 09:07 | 57082081 14/: 6 57082081 14/: 6 Analyzed 0K/E2/E4 48:33 0K/E2/E4 48:33 0K/E2/E4 48:33 | 4 |

1130

< g/mg

0K/E2/E4 4K:67

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-983-1 Project/Site: Big Eddy Unit 130 SDG: TE012920126

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | BFB1 | DFBZ1 |
|-------------------|-------------------------|----------|----------|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-983-1 | 7S25 | 115 | 100 |
| 890-983-2 | 7 S22 | 113 | 100 |
| 890-983-+ | 7S21 | 1+2 S1F | 102 |
| 890-983-5 | 7S16 | 108 | 10+ |
| MCS 880-3603/1-A | M4b Control S4L ale | 99 | 105 |
| MCSD 880-3603/2-A | M4b Control S4L ale Dpa | 111 | 10m |
| u B 880-3603/3-A | u ethod Bl4nk | 123 | 9+ |

B7B = 5-BroL oflporobenzene (Sprr) D7BZ = 1,5-Diflporobenzene (Sprr)

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

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

| _ | | | |
|-------------------|-------------------------|----------|----------|
| | | 1CO1 | OTPH1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-983-1 | 7\$25 | 85 | 98 |
| 890-983-2 | 7\$22 | 83 | 101 |
| 890-983-+ | 7S21 | 83 | 3mS1- |
| 890-983-5 | 7S16 | 83 | 9m |
| MCS 880-3631/2-A | M4b Control S4L ale | 99 | 110 |
| MCSD 880-3631/+-A | M4b Control S4L ale Dpa | 98 | 109 |
| u B 880-3631/1-A | u ethod Bl4nk | 83 | 100 |

Surrogate Legend

1Cs = 1-Chlorooct4ne

s TPX = o-Terahenyl

EprofinOHenco, C4rlOb4d

1 Clent WS PWU leAc Sroji An/Wni : Blg Tddy Peln460 Job ID: 890-986-4

WD.: GT04E9E04E2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5605/5-A

Matrix: Solid

Analysis Batch: 5650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5605

| | MB | MB | | | | | | |
|------------------------|---------|-----------|--------|--------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Bi e5i ei | z0@0E00 | P | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |
| GoCiei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |
| Truy © i e5i ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |
| <-hyCei X &-hyCei | z0@0700 | Р | 0@0700 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |
| o-h y©ei | z0@0E00 | Р | 0@0E00 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |
| hy©ei psGon, C | z0@0700 | Р | 0@0700 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |
| Con, CBGTh | z0@0700 | Р | 0@0700 | < g/mg | | 0K/E7/E4 44:00 | 0K/E2/E4 44:67 | 4 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|-----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | 07/24/21 11900 | 07/2: /21 11964 | 1 |
| 1,4-Difluorobenzene (Surr) | 53 | | 70 - 130 | 07/24/21 11900 | 07/2: /21 11964 | 1 |

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 5650

Lab Sample ID: LCS 880-5605/1-A

Prep Type: Total/NA Prep Batch: 5605

| | Spike | LCS | LCS | | | %Rec. | |
|------------------------|--------------|--------|-------------|-------|------|---------------------|--|
| Analyte | Added | Result | Qualifier U | nit D | %Rec | Limits | |
| Bi e5i ei | 0¢400 | 0¢4066 | < | g/mg | 402 | K0 - 4a0 | |
| GoCiei | 0ଔ00 | 0@9844 | < | g/mg | 98 | K0 ₋ 4a0 | |
| Truy © i e5i ei | 0¢400 | 0@9207 | < | g/mg | 92 | K0 - 4a0 | |
| <-hy€ei X &-hy€ei | 0∉00 | 0¢49K8 | < | g/mg | 99 | K0 ₋ 4a0 | |
| o-h y℃ei | 0¢400 | 0@9289 | < | g/mg | 9K | K0 ₋ 4a0 | |
| | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualified | r Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 55 | 70 - 130 |
| 1 4-Difluorobenzene (Surr) | 104 | 70 - 130 |

Lab Sample ID: LCSD 880-5605/2-A

Matrix: Solid

Analysis Batch: 5650

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5605

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD | |
|-------------------|----------------|-----------------|-----------|--------|---|------|---------------------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Bi e5i ei | 0c400 | 0¢4078 | | < g/mg | | 406 | K0 ₋ 4a0 | 4 | a6 | |
| ര േദ് ei | 0 c 400 | 0@9287 | | < g/mg | | 9K | K0 ₋ 4a0 | 4 | a6 | |
| Truy(b)i e5i ei | 0c400 | 0 @ 9K0K | | < g/mg | | 9K | K0 ₋ 4a0 | 4 | a6 | |
| <-hyCei X &-hyCei | 0Œ00 | 0¢499a | | < g/mg | | 400 | K0 ₋ 4a0 | 4 | a6 | |
| o-hy©ei | 0¢400 | 0@9888 | | < g/mg | | 99 | K0 - 4a0 | E | a6 | |
| | | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 111 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 107 | 70 - 130 |

T3roRep hi eAos1, rOpb, d

1 @ ent WS PWU leAc Job ID: 890-986-4 Sroji An/Wni: Blg Tddy Peln460 WD.: GT04E9E04E2

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

Lab Sample ID: MB 880-5651/1-A

Matrix: Solid

Analysis Batch: 5658

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5651

| | MB | MB | | | | | | |
|---------------------------------|--------|-----------|-----|--------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| ., po@ei O, egi (rg, elAp | z60@ | Р | 60@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4E:aE | 4 |
|). O(v-1 2-1 40 | | | | | | | | |
| DlipiCO, egi (rg, elAp)(Hr | z60@ | P | 60@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4E:aE | 4 |
| 1 40-1 E8v | | | | | | | | |
| (ICO, egi (rg, elAp)(Hr1E8-1a2v | z60@ | P | 60@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4E:aE | 4 |
| Gon, CGSf | z60@ | Р | 60@ | < g/mg | | 0K/E2/E4 09:07 | 0K/E2/E4 4E:aE | 4 |
| | | | | | | | | |

мв мв

| | Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|-----------|----------|----|----------------|-----------------|---------|
| | 1-8 Gorooha ne | а6 | | 70 - 130 | 07 | 7/2: /21 05904 | 07/2: /21 12982 | 1 |
| Į | o-TerpCenyl | 100 | | 70 - 130 | 07 | 7/2: /21 05904 | 07/2: /21 12982 | 1 |

Lab Sample ID: LCS 880-5651/2-A

Matrix: Solid

Analysis Batch: 5658

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

Prep Batch: 5651

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits ., po@ei O, egi (rg, elAp 4000 82468 82 K0 - 4a0 < g/mg). O(v-12-140 Dli pi CO, egi (rg, elAp)(H r 4000 96866 < g/mg 92 K0 - 4a0 140-1E8v

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------|-----------|-----------|----------|
| 1-8 Clorooha ne | 55 | | 70 - 130 |
| o-TerpCenyl | 110 | | 70 - 130 |

Lab Sample ID: LCSD 880-5651/3-A

Matrix: Solid

Analysis Batch: 5658

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5651

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-----------------------------|-------|--------|-----------|--------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| ., po@ei O, egi (rg, elAp | 4000 | 9E2¢4 | | < g/mg | | 9a | K0 - 4a0 | K | E0 |
|). O(v-12-140 | | | | | | | | | |
| Dlipi ℂO, egi (rg, elAp)(Hr | 4000 | 976œ | | < g/mg | | 96 | K0 - 4a0 | 4 | E0 |
| 1 40-1 E8v | | | | | | | | | |

| | LUSD | LUSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-8 Gorooha ne | 5a | | 70 - 130 |
| o-TerpCenyl | 105 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5654/1-A

Matrix: Solid

Analysis Batch: 5670

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB Analyte Result Qualifier RL Unit Dil Fac D Prepared Analyzed z6000 P 6@0 1 u@rldi < g/mg 0K/E2/E4 42:78

T3roRep hi eAos1, rOpb, d

1 u@rldi

QC Sample Results

 1 @ en t WS PWU leAc
 Job ID: 890-986-4

 Sroji An/Wni : Blg Tddy Peln460
 WD. : GT04E9E04E2

Method: 300.0 - Anions, Ion Chromatography (Continued)

| Lab Sample ID: LCS 880-5654/2-A Matrix: Solid | | | | | Client | Sample | ID: Lab Control Sample Prep Type: Soluble |
|---|-------|--------|-----------|------|--------|--------|---|
| Analysis Batch: 5670 | | | | | | | Trop Typer Coldate |
| | Spike | LCS | LCS | | | | %Rec. |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |

EKEc6

< g/mg

409

90 - 440

| Lab Sample ID: LCSD 880-5654/3-A Matrix: Solid Analysis Batch: 5670 | | | | | Clier | nt Sam | ple ID: | Lab Contro Prep | ol Sampl Type: So | |
|---|-----------------|-------|--------|-----------|--------|--------|---------|--------------------|----------------------|-------|
| | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1 u@rldi | · - | E60 | E26d8 | | < g/mg | | 402 | 90 - 440 | Е | E0 |

E60

T3roRep hi eAos1, rOpb, d

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

SDG: TE012920126

GC VOA

Prep Batch: 5605

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-985-1 | FS24 | Total/NA | Solid | 5035 | |
| 890-985-2 | FS22 | Total/NA | Solid | 5035 | |
| 890-985-3 | FS21 | Total/NA | Solid | 5035 | |
| 890-985-4 | FS16 | Total/NA | Solid | 5035 | |
| MB 880-5605/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5605/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5605/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

Analysis Batch: 5650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-985-1 | FS24 | Total/NA | Solid | 8021B | 5605 |
| 890-985-2 | FS22 | Total/NA | Solid | 8021B | 5605 |
| 890-985-3 | FS21 | Total/NA | Solid | 8021B | 5605 |
| 890-985-4 | FS16 | Total/NA | Solid | 8021B | 5605 |
| MB 880-5605/5-A | Method Blank | Total/NA | Solid | 8021B | 5605 |
| LCS 880-5605/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5605 |
| LCSD 880-5605/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5605 |

GC Semi VOA

Prep Batch: 5651

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-985-1 | FS24 | Total/NA | Solid | 8015NM Prep | |
| 890-985-2 | FS22 | Total/NA | Solid | 8015NM Prep | |
| 890-985-3 | FS21 | Total/NA | Solid | 8015NM Prep | |
| 890-985-4 | FS16 | Total/NA | Solid | 8015NM Prep | |
| MB 880-5651/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5651/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5651/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5658

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-985-1 | FS24 | Total/NA | Solid | 8015B NM | 5651 |
| 890-985-2 | FS22 | Total/NA | Solid | 8015B NM | 5651 |
| 890-985-3 | FS21 | Total/NA | Solid | 8015B NM | 5651 |
| 890-985-4 | FS16 | Total/NA | Solid | 8015B NM | 5651 |
| MB 880-5651/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5651 |
| LCS 880-5651/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5651 |
| LCSD 880-5651/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5651 |

HPLC/IC

Leach Batch: 5654

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-985-1 | FS24 | Soluble | Solid | DI Leach | |
| 890-985-2 | FS22 | Soluble | Solid | DI Leach | |
| 890-985-3 | FS21 | Soluble | Solid | DI Leach | |
| 890-985-4 | FS16 | Soluble | Solid | DI Leach | |
| MB 880-5654/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5654/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5654/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-985-1

SDG: TE012920126

HPLC/IC

Analysis Batch: 5670

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-985-1 | FS24 | Soluble | Solid | 300.0 | 5654 |
| 890-985-2 | FS22 | Soluble | Solid | 300.0 | 5654 |
| 890-985-3 | FS21 | Soluble | Solid | 300.0 | 5654 |
| 890-985-4 | FS16 | Soluble | Solid | 300.0 | 5654 |
| MB 880-5654/1-A | Method Blank | Soluble | Solid | 300.0 | 5654 |
| LCS 880-5654/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5654 |
| LCSD 880-5654/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5654 |

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-981-r Pjo/ectBSite: giEdyy5 Unit r 10 SDG: Td 0r 2920r 26

Client Sample ID: FS06

Date Receive7: -/ 20420MM4:-8

Lab Sample ID: 89-59815M Date Collecte7: -/ 20420MM:M

x atrid: Soli7

| | Batch | Batch | | Dilution | Batch | Prepare7 | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|--------|
| Prep Type | Туре | x etho7 | Run | Factor | Number | or Analyze7 | Analyst | Lab |
| TotsIBMA | Pjep | 1031 | | | 1601 | 07E2KE2r rr:00 | LX | NdMaID |
| TotsIBMA | AnsI54i4 | 802r g | | r | 1610 | 07B26B2rr3:18 | LX | NdMaID |
| TotsIBMA | Pjep | 80r 1Ma Pjep | | | 161r | 07E26E2r 09:0K | Da | NdMaID |
| TotsIBMA | AnsI54i4 | 80r 1g Ma | | r | 1618 | 07B26B2rr7:r0 | AJ | NdMaID |
| Soluble | Xesch | DI Xesch | | | 161K | 07E26E2rr0:07 | SC | NdMaID |
| Soluble | AnsI54i4 | 300.0 | | r | 1670 | 07B26B2rr7:26 | SC | NdMaID |

Client Sample ID: FS00 Lab Sample ID: 89-598150

Date Collecte7: -/ 20420MM:-0 x atrid: Soli7 Date Receive7: -/ 20420MM4:-8

Batch Batch Dilution Batch Prepare7 Prep Type Туре x etho7 Run Factor Number or Analyze7 Analyst Lab TotsIBMA Pjep 1031 1601 07E2KE2r rr:00 LX Nd M a ID TotsIBMA AnsI54i4 802r g 07E26E2rrK:r8 NdMaID 1610 LX TotsIBMA NdMaID Piep 80r 1Ma Pjep 161r 07E26E2r 09:0K Da Tots/BMA NdMaID AnsI54i4 80r 1g Ma 1618 07B26B2r r 7:3r AJNd M a ID Soluble Xesch DI Xesch 161K 07B26B2rr0:07 SC NdMaID Soluble AnsI54i4 300.0 1670 07E26E2rr7:32 SC

Client Sample ID: FS0M Lab Sample ID: 89-598154

Date Collecte7: -/ 20420MMM1M x atrid: Soli7 Date Receive7: -/ 20420MM4:-8

| | Batch | Batch | | Dilution | Batch | Prepare7 | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|-----------|
| Prep Type | Type | x etho7 | Run | Factor | Number | or Analyze7 | Analyst | Lab |
| TotsIBMA | Pjep | 1031 | | | 1601 | 07E2KE2r rr:00 | LX | Nd M a ID |
| TotsIBMA | AnsI54i4 | 802r g | | r | 1610 | 07B26B2rrK:39 | LX | NdMaID |
| TotsIBMA | Pjep | 80r 1Ma Pjep | | | 161r | 07E26E2r 09:0K | Da | NdMaID |
| TotsIBMA | AnsI54i4 | 80r 1g Ma | | r | 1618 | 07B26B2rr8:r2 | AJ | NdMaID |
| Soluble | Xesch | DI Xesch | | | 161K | 07E26E2rr0:07 | SC | NdMaID |
| Soluble | AnsI54i4 | 300.0 | | r | 1670 | 07B26B2rr7:37 | SC | NdMaID |

Client Sample ID: FSMB Lab Sample ID: 89-598156

Date Collecte7: -/ 20420MM11 x atrid: Soli7 Date Receive7: -/ 20420MM4:-8

| | Batch | Batch | | Dilution | Batch | Prepare7 | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|--------|
| Prep Type | Type | x etho7 | Run | Factor | Number | or Analyze7 | Analyst | Lab |
| TotsIBMA | Pjep | 1031 | | | 1601 | 07E2KE2r rr:00 | LX | NdMaID |
| TotsIBMA | AnsI54i4 | 802r g | | r | 1610 | 07B26B2rrK:19 | LX | NdMaID |
| TotsIBMA | Pjep | 80r 1Ma Pjep | | | 161r | 07E26E2r 09:0K | Da | NdMaID |
| TotsIBMA | AnsI54i4 | 80r 1g Ma | | r | 1618 | 07B26B2rr8:33 | AJ | NdMaID |
| Soluble | Xesch | DI Xesch | | | 161K | 07E26E2rr0:07 | SC | NdMaID |
| Soluble | Ansl54i4 | 300.0 | | r | 1670 | 07E26E2rr7:1K | SC | NdMaID |

Laboratory References:

Nd Ma ID = dujofin4 Nenco, a iylsny, r 2rr W. Flojiys Ave, a iylsny, TN 7970r, Td X (K32)70K-1KK0

dujofin4 Nenco, Csjl4bsy

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-986-4

 P1orectjSite: / iB g EEd Unit 460
 SDy: 5g 04@004GT

Laboratory: Eurofins Xenco, Midland

| Authority | Pr | ogram | Identification Number | Expiration Date |
|-------------------------|--------------------------------|------------------------------------|---|---------------------------|
| 5eu, 2 | Ng | JLAP | 540x70xx00-Q0-G4 | 0T-30-GG |
| 5se anlloh in R n ldte2 | 10 incly EqE in toi2 1000 tuby | t to a L had to 1d i2 not co 1tia | eEbd tse Bof e1ninB, vtso1itd. 5si2 li2t m, | dinaly Eq. in lette 2 mg |
| tse , Bencd Eoe2 not oa | • | t (Se i, DO i, to la 12 not ce ida | ee bu tse boi e minb, viso ma. Ssiz iizt m, | d incivee, ii, idle2 ab |
| | • | M, t1iu | An, Idte | d Incivite , II, idiez ab |
| tse , Bencd Eoe2 not oa | æ1ce1tiaic, tion. | , , | , | d incivee , n, idle2 ab |

Method Summary

1 Clent WS PWU leAc

Job ID: 890-986-4 Sroji An/Wni : Blg Tddy Peln460 WD.: GT04E9E04E2

| Method | Method Description | Protocol | Laboratory |
|--------------|---|----------|------------|
| 80E4B | Vo@rlC OrgaelA1 ompoueds (. 1) | Wt 852 | XTN MID |
| 8046B NM | Dli si CRaegi OrgaelAs (DRO) (. 1) | Wt 852 | XTN MID |
| 300d | Ueloes, loe 1 hromarography | M1 Ut t | XTN MID |
| 6036 | 1 @si d Wysri m Surgi aed Grap | Wt 852 | XTN MID |
| 3046NM Sri p | MIAroi xmaArloe | Vt 852 | XTN MID |
| DI Li aAh | Di loelzi d t an r Li aAhleg SroAi duri | UWGM | XTN MID |

Protocol References:

UWGM = UWGM leri rearloeaC

M1 Ut t = "Mi rhods For 1 hi mlAaQJeaQsls Of t an r Jed t asnis", TSU-200/5-79-0E0, MarAh 4983 Jed Wubsi qui enRi vlsloesc Wt 852 = "G snMi rhods For TvaQarleg WoQt t asri , ShyslAaQt hi mlAaQMi rhods", Chlrd TdIrloe, Novi mbi r 4982 Ued Ins Ppdari sc

Laboratory References:

XTN MID = Turofles Xi eAo, MId@ed, 4E44 t $\,$ cF@rlda Uvi , MId@ed, GX 79704, GTL (53E)705-6550

Sample Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 130

Job ID: 890-983-1

SDG: TE012920126

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-983-1 | 5S2F | Solid | 07/24/21 10:17 | 07/24/21 14:08 | F - 8 |
| 890-983-2 | 5S22 | Solid | 07/24/21 10:02 | 07/24/21 14:08 | F-8 |
| 890-983-4 | 5S21 | Solid | 07/24/21 11:31 | 07/24/21 14:08 | - 3.3 |
| 890-983-F | 5S16 | Solid | 07/24/21 11:33 | 07/24/21 14:08 | - 3.3 |

Relinquished by: (Signature)

Received by: (Signature)

7.23-711308

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 051418 Rev. 2018 1

Company Name: Project Manager:

Address:

Chain of Custody

| (432) 236-3849 | Midland, TX 79705 | 3300 North A Street | WSP USA | Dan Moir | XENCO | |
|--|--|---------------------|---|-------------------------|--|------------------|
| Email: Jeremy.Hill@wsp.com, Dan.Moir@wsp.com | City, State ZIP: | Address: | Company Name: XTO Energy | Bill to: (if different) | Houston, TX (281) 240-4200 C Midland, TX (432-704-5440) Hobbs, NM (575-392-7550) Phoenix, AZ (4 | 0 |
| com, Dan.Moir@wsp.com | Carlsbad, NM 88220 | 522 W. Mermod St. | XTO Energy | Kyle Littrell | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | Chain of Custody |
| Deliverables: EDD ADaPT Other: | Reporting:Level III Level III LET/UST LIRP UPVELIV | State of Project: | Program: UST/PST RP rownfields RC perfund | Work Order Comments | 3334 295 _(813-820-2000) www.xenco.com Page (of) | Work Order No: |

| City, State ZIP: Carlsbad, NM 88220 | City, State ZIP: Carlsbad, NM 88220 Email: Jeremy.Hill@wsp.com, Dan.Moir@wsp.com Turn Around Routine [] Rush: 3+1+ / Due Date: 1/3/JJ Due Date: 1/3/JJ Polet Ice: Yes No ometer ID A COCA ainers: Depth Number of Containers TPH (EPA 8015) BTEX (EPA 300.0) |
|---------------------------------------|---|
| ANAL | ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST B90-985 Chain of Custody |
| | s: EDD ADaPT |

nquished by

Carisbad, NM 88220

1089 N Canal St.

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

State Zip. TX, 79701

oject Name:

Midland

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

eurofins

Environment Testing

Empty Kit Relinquished by Possible Hazard Identification Note. Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Deliverable Requested Till III, IV Other (specify) Big Eddy Unit 150 432-704-5440(Tel) S16 (890-985-4) Sample Identification - Client ID (Lab ID) S21 (890-985-3) S22 (890-985-2) S24 (890-985-1) 1211 W Florida Ave Shipping/Receiving Custody Seals Intact: urofins Xenco inquished by: lient Information (Sub Contract Lab) quished by: Yes A No 100 Custody Seal No WO# Date/Time Primary Deliverable Rank 2 89000004 Phone: PO# Due Date Requested 7/26/2021 TAT Requested (days) Sample Sample Date 7/23/21 7/23/21 7/23/21 7/23/21 Date Mountain 11 55 Mountain 11 51 Mountain 10 02 Mountain Sample 10 17 (C=comp, G=grab Sample Type Preservation Code: XENCO Company O-waste/oil Solid Solid Solid Solid jessica kramer@eurofinset.com Kramer Jessica Lab PM Time Field Filtered Sample (Yes or No) Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements Received by Received by Cooler Temperature(s) °C and Other Remarks × × × 8015MOD_NM/8015NM_S_Prep Full TPH × ved by × × × × 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc BTEX × × × **Analysis Requested** Disposal By Lab State of Origin. New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Time Date/Time Archive For Total Number of containers 10 4 بغد A - HCL B NaOH C Zn Acetate D Nithic Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I - Ice J DI Water K - EDTA L EDA COC No: 890-316 1 Preservation Codes: 890-985-1 Page 1 of 1 Job # age: Special Instructions/Note: Company Company H2S04 other (specify) MCAA TSP Dodecahydrate AsNaO2 Na2O4S Na2SO3 Acetone Na2S2O3 PH 4-5 Months Page 19 of 21

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-985-1 SDG Number: TE012920126

List Source: Eurofins Xenco, Carlsbad

Login Number: 985 List Number: 1 Creator: Clifton, Cloe

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

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-985-1 SDG Number: TE012920126

Login Number: 985 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 07/26/21 08:33 AM

Creator: Lowe, Katie

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

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-995-1

Laboratory Sample Delivery Group: TE012921026

Client Project/Site: Big Eddy Unit 150

Revision: 4

For:

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

Attn: Dan Moir

MRAMER

Authorized for release by: 8/5/2021 9:55:47 AM

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

.....LINKS

Review your project results through

lotal Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/28/2022 4:36:12 PM

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

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

1

2

3

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14

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Laboratory Job ID: 890-995-1

SDG: TE012921026

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-995-1 Project/Site: Big Eddy Unit 150

SDG: TE012921026

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid 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 Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-995-1

SDG: TE012921026

Job ID: 890-995-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-995-1

REVISION

The report being provided is a revision of the original report sent on 7/28/2021. The report (revision 3) is being revised due to per client email, 08/05/2021 Correct sample ID BH04 to BH03.

Report revision history

The report being provided is a revision of the original report sent on 7/28/2021. The report (revision 3) is being revised due to per client email, 08/05/2021 Correct sample ID BH04 to BH03.

Revision 2 - 8/4/2021 - Reason - Per client email 08/03/2021, requesting laboratory to re-homogenize/extract and re run TPH BH04 @1 and BH04 18.

Revision 2 - 8/4/2021 - Reason - Per client email 08/03/2021, requesting laboratory to re-homogenize/extract and re run TPH BH04 @1

Revision 1 - 8/4/2021 - Reason - Per client email, requesting laboratory to re-homogenize/extract and re run TPH for samples BH01 and BH02.

Receipt

The samples were received on 7/26/2021 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

GC VOA

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

GC Semi VOA

Released to Imaging: 2/28/2022 4:36:12 PM

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.

Eurofins Xenco, Carlsbad 8/5/2021 (Rev. 4)

Page 4 of 26

Job ID: 890-991-C

Client Sample Results

I ient WS PU APc It . G Ujo/n. WBP No/h/: g ed 2 yy 5 At No/C10

PDT: E200696006r

Client Sample ID: BH01 Lab Sample ID: 890-995-1

Date Collected: 07/26/21 08:44 Matrix: Solid Date Received: 07/26/21 15:25

Sample Depth: - 18

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------------|-----------|-------------------------|----------------|---|----------------|----------------|---------|
| gnt znt n | <0 @ 0C98 | A | 000098 | mdBKd | | 07B68B6C08:37 | 07B68B6CC3:0r | C |
| Eoi4nt n | <0 @ 0 C 98 | Α | 0 © 0 © 8 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:0r | С |
| 2W/5ibnt znt n | <0 @ 0 C 98 | Α | 0 © 0 © 8 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:0r | С |
| m-h5int n X &-h5int n | <0 @ 039r | Α | 0 © 039r | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:0r | С |
| o-h5int n | <0 @ 0 C 98 | Α | 0 © 0 © 8 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:0r | С |
| h 5int nps Eo\;\/i | <0 @ 039r | Α | 0 © 039r | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:0r | С |
| Eo,Wi g E2 h | <0 © 039r | Α | 0 © 039r | mdBKd | | 07B68B6C08:37 | 07B68B6CC3:0r | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 1357: | 1 |
| 194-6 ,fluorobenzene (Surr) | DD | | 87 ₋ 137 | | | 78/02/01 72538 | 78/02/01 1357: | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---------------|-----------|--------------|----------------|---|-----------------|-----------------|---------|
| T, poietna, t dn Rjd, t e p OraR(-I r-I CO | <) 909 | A |) 909 | mdBKd | | 07B3CB5C CO:) 9 | 08B0CB6C60:C6 | С |
| Denpnia, tdn Rjd, te p ORvnj ICO-I68(| <) 9 9 | Α |) 9 © | md B Kd | | 07B3CB5CCO:)9 | 08B0CB6C60:C6 | С |
| Rlia, tdn Rjd, tep ORvnj I 68-I 3r (| <) 9 9 | Α |) 9 © | md B Kd | | 07B3CB5CC0:)9 | 08B0CB6C60:C6 | С |
| Eo;∖∕i EUf | <) 9 9 | Α |) 9 © | md B Kd | | 07B3CB5CC0:)9 | 08B0CB6C60:C6 | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i Goroohd ne | 172 | | 87 - 137 | | | 78/31/01 1754D | 72/71/01 075/0 | 1 |
| o-aerTCenpl | 10y | | 87 - 137 | | | 78/31/01 1754D | 72/71/01 075/10 | 1 |

| Method: 300.0 - Anions, Ion Cl | hromatography - Soluk | ole | | | | | |
|--------------------------------|-----------------------|-------|-------|---|----------|---------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 342 |) (98 | mdBKd | | | 07B68B6CC1:66 | C |

Lab Sample ID: 890-995-2 **Client Sample ID: BH02** Date Collected: 07/26/21 10:15 Matrix: Solid

Date Received: 07/26/21 15:25

Sample Depth: - 18

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
|-----------------------------|------------------|-----------|---------------------|----------------|---|----------------|----------------|--------|
| gnt znt n | <0 © 0600 | A | 0 0 0600 | mdBKd | | 07B68B6C08:37 | 07B68B6CC3:6r | |
| Eoi4nt n | <0 @ 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 0756856CC3:6r | |
| 2 W/5ibnt znt n | <0 @ 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 0756856CC3:6r | |
| m-h5int n X &-h5int n | <0 © 0399 | Α | 0 © 0399 | md B Kd | | 07B58B5C08:37 | 0756856CC3:6r | |
| o-h 5int n | <0 © 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 07B68B6CC3:6r | |
| h5int npsEoWi | <0 © 0399 | Α | 0 © 0399 | md B Kd | | 07B58B5C08:37 | 0756856CC3:6r | |
| EoWigE2h | <0 © 0399 | Α | 0 © 0399 | mdBKd | | 07B68B6C08:37 | 07B68B6CC3:6r | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 1350: | |
| 194-6 ,fluorobenzene (Surr) | D2 | | 87 ₋ 137 | | | 78/02/01 72538 | 78/02/01 1350: | |

24jolet p h nt . osl , jipb, y

I ient WS PU APc It . G Ujo/n. VBP eM: g ed 2 yy5 At eMC10

PDT: E200696006r

Client Sample ID: BH02

Lab Sample ID: 890-995-2

Date Collected: 07/26/21 10:15 Date Received: 07/26/21 15:25

Matrix: Solid

Job ID: 890-991-C

Sample Depth: - 18

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-------------|-------------|----------------|---|----------------|----------------|---------|
| T, poietna, t dn Rjd, t e p OraR(-Ir-IO0 | <100 | A | 100 | mdBKd | | 07B3CB5CCO:)9 | 08B0CB6C60:3) | С |
| Denpnia, tdn Rjd, tep ORvnj ICO-I68(| <10 © | Α | 10 © | md B Kd | | 07B3CB5CCO:)9 | 08B0CB6C60:3) | С |
| Rlia, tdn Rjd, tep ORvnj I 68-I 3r (| <100 | Α | 10 © | mdBKd | | 07B3CB5CC0:)9 | 08B0CB6C60:3) | С |
| Eo\M EUf | <10 © | Α | 10 © | md B Kd | | 07B3CB5CC0:)9 | 08B0CB6C60:3) | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i Goroohd ne | 17: | | 87 - 137 | | | 78/31/01 1754D | 72/71/01 07534 | 1 |
| o-aerTCenpl | 100 | | 87 - 137 | | | 78/31/01 1754D | 72/71/01 07534 | 1 |
| _ | | | ıblo | | | | | |
| Method: 300.0 - Anions, Ion C | hromatogra | ipny - Soiu | inie | | | | | |
| Method: 300.0 - Anions, Ion C Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: BH03 Lab Sample ID: 890-995-3

Date Collected: 07/26/21 10:51 **Matrix: Solid**

Date Received: 07/26/21 15:25

Released to Imaging: 2/28/2022 4:36:12 PM

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: - 1

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|-------------------------------|---|-------------------------|----------|---|--|---------|
| gnt znt n | <0@0600 | A | 0 0 0600 | mdBKd | | 07B68B6C08:37 | 07B68B6CC3:)7 | |
| Eoi4nt n | <0 @ 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 07B58B5CC3:)7 | |
| 2 W/5ibnt znt n | <0 © 0600 | Α | 0 © 0600 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:)7 | (|
| m-h5int n X &-h5int n | <0 © 0399 | Α | 0 © 0399 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:)7 | (|
| o-h 5int n | <0 © 0600 | Α | 0 © 0600 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:)7 | (|
| h5int npsEoV,Vi | <0 © 0399 | Α | 0 © 0399 | mdBKd | | 07B68B6C08:37 | 07B68B6CC3:)7 | |
| EoWigE2h | <0 © 0399 | Α | 0 © 0399 | md B Kd | | 07B68B6C08:37 | 07B68B6CC3:)7 | (|
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 11: | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 13548 | |
| 194-6 ,fluorobenzene (Surr) | D4 | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 13 5 48 | |
| Method: 8015B NM - Diesel R | ange Organi | ics (DRO) | (GC) | | | | | |
| | | Qualifier | ` RL | 11 | D | Prepared | A malumad | Dil E- |
| Analyte | Result | Qualifier | KL | Unit | U | riepaieu | Analyzed | DII Fa |
| T, poid n a, t dn Rjd, t e p | <) 9 9 | |)99 | mdBKd | _ = | 08B03B6CC1:37 | 08B03B6C63:37 | |
| T, poidena, tdn Rjd, tep OfaR(-Ir-IOO Denpnia, tdn Rjd, tep ORvnj | | A | | | | | | |
| T, poietn a, t dn Rjd, tep OfaR(-Ir-IOO Denpnia, t dn Rjd, tep ORvnj IOO-I68(| <)99 | A A |) 9 9 | mdBKd | | 08B03B6CC1:37 | 08B03B6C63:37 | |
| T, poiden a, tdn Rjd, tep OTaR(-Ir-IOO Denpnia, tdn Rjd, tep ORvnj IOO-I68(Rlia, tdn Rjd, tep ORvnj I68-I3r(| <) 9 9 | A A A |)99 | md B Kd | | 08B03B6C C1:37 | 08B03B5C63:37 | |
| T, poid na, t dn Rjd, t e p OraR(-Ir-IOO) Denpnia, t dn Rjd, t e p ORvnj IOO-I68(Rlia, t dn Rjd, t e p ORvnj I68-I3r (Eo WiEUf | <) 9 9 <) 9 9 <) 9 9 | A A A |) 9 ©) 9 ©) 9 © | mdBKd mdBKd mdBKd | | 08B03B5CC1:37 08B03B5CC1:37 08B03B5CC1:37 | 08B03B5C63:37 08B03B5C63:37 08B03B5C63:37 | |
| T, poid n a, t dn Rjd, t e p Of a R(-Ir-IO) Denpnia, t dn Rjd, t e p ORvnj IOO-I68(Rlia, t dn Rjd, t e p ORvnj I68-I3r(EoW, EUf Surrogate | <) 99 <) 99 <) 99 <) 99 | A A A |) 9 G) 9 G) 9 G | mdBKd mdBKd mdBKd | | 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 | 08B03B5C63:37 08B03B5C63:37 08B03B5C63:37 08B03B5C63:37 | |
| T, poietna, t dn Rjd, t e p OfaR(-Ir-IO) Denpnia, t dn Rjd, t e p ORvnj IOO-I68(Rlia, t dn Rjd, t e p ORvnj I68-I3r(EoWiEUf Surrogate 1-i Oroohd ne | <) 99 <) 99 <) 99 <) 99 <%Recovery | A A A |) 9G) 9G) 9G) 9G | mdBKd mdBKd mdBKd | | 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 Prepared 72/73/01 1958 | 08B03B5C63:37 08B03B5C63:37 08B03B5C63:37 08B03B5C63:37 Analyzed | Dil Fa |
| T, poietna, tdn Rjd, tep OfaR(-Ir-IO) Denpnia, tdn Rjd, tep ORvnj IOO-I68(Rlia, tdn Rjd, tep ORvnj I68-I3r(EoWi EUf Surrogate 1-i Cloroohd ne o-aerTCenpl | <) 99 <) 99 <) 99 <) 99 %Recovery 23 24 | A A A A Qualifier |) 9G) 9G) 9G) 9G Limits 87 - 137 87 - 137 | mdBKd mdBKd mdBKd | <u>U</u> | 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 Prepared 72/73/01 1958 | 08B03B6C63:37 08B03B6C63:37 08B03B6C63:37 08B03B6C63:37 Analyzed 72/73/01 03588 | Dil Fa |
| Analyte T, poid n a, t dn Rjd, t e p Of a R(-I r-I CO) Denpni a, t dn Rjd, t e p ORvnj I CO-I 68(Rli a, t dn Rjd, t e p ORvnj I 68-I 3r (Eo\times EUf Surrogate 1-i Coroohd ne o-aerTCenpl Method: 300.0 - Anions, Ion C Analyte | <) 99 <) 99 <) 99 <) 99 **Recovery 23 24 | A A A A Qualifier |) 9G) 9G) 9G) 9G Limits 87 - 137 87 - 137 | mdBKd mdBKd mdBKd | <u>U</u> | 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 08B03B5C C1:37 Prepared 72/73/01 1958 | 08B03B6C63:37 08B03B6C63:37 08B03B6C63:37 08B03B6C63:37 Analyzed 72/73/01 03588 | Dil Fa |

24jolet p h nt . osl , jipb, y

I ient WS PU APc It . G Ujo/n. VMSP eWn/: g ed 2 yy 5 At eWC10

PDT: E200696006r

Client Sample ID: BH03 Date Collected: 07/26/21 11:02 Lab Sample ID: 890-995-4

Date Received: 07/26/21 15:25

Matrix: Solid

Job ID: 890-991-C

Sample Depth: - 5

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------------|-----------|-------------------------|----------------|---|----------------|----------------|---------|
| gnt znt n | <0 © 0098 | A | 000098 | mdBKd | | 07B68B6C08:37 | 07B68B6CC):07 | C |
| Eoi4nt n | <0 @ 0 © 98 | Α | 0 © 0 © 8 | mdBKd | | 07B68B6C08:37 | 07B68B6CC):07 | С |
| 2W/5ibnt znt n | <0 @ 0 © 98 | Α | 0 © 0©8 | md B Kd | | 07B58B5C08:37 | 07B68B6CC):07 | С |
| m-h5int n X &-h5int n | <0 © 039r | Α | 0 © 039r | md B Kd | | 07B58B5C08:37 | 07B68B6CC):07 | С |
| o-h5int n | <0 © 0098 | Α | 0 © 0 © 8 | mdBKd | | 07B58B5C08:37 | 07B68B6CC):07 | С |
| h 5int nps Eo\;\/i | <0 © 039r | Α | 0 © 039r | mdBKd | | 07B58B5C08:37 | 07B68B6CC):07 | С |
| Eo,Wi g E2 h | <0 © 039r | Α | 0 © 039r | md B Kd | | 07B68B6C08:37 | 07B68B6CC):07 | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 145/8 | 1 |
| 194-6 ,fluorobenzene (Surr) | D2 | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 145/8 | 1 |

| Method: 8015B NM - Diesel R | ange Organ | ics (DRO) | (GC) | | | | | |
|--|--------------|-----------|-------------|----------------|---|----------------|-------------------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| T, poietna, tdn Rjd, tep OfaR(-Ir-IOO | <100 | A | 100 | md B Kd | | 07B58B5C 00:00 | 07B58B5CC1:6r | С |
| Denpnia, tdn Rjd, te p ORvnj ICO-I68(| <100 | Α | 10 © | md B Kd | | 07B58B5C00:00 | 07B58B5CC1:6r | С |
| Rlia, tdn Rjd, tep ORvnj I68-I3r (| <10 © | Α | 10 © | md B Kd | | 07B58B5C CO:00 | 07B68B6CC1:6r | С |
| Eo\M EUf | <10@ | Α | 10 © | md B Kd | | 07B58B5CC0:00 | 07B58B5CC1:6r | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i Goroohd ne | 110 | | 87 - 137 | | | 78/02/01 175/7 | 78/02/01 1y 5 0: | 1 |
| o-aerTCenpl | 113 | | 87 - 137 | | | 78/02/01 175/7 | 78/02/01 1y 5 0: | 1 |

| Method: 300.0 - Anions, Ion C | hromatography - Solub | le | | | | | |
|-------------------------------|-----------------------|--------------|-------|---|----------|---------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 112 |) G r | mdBKd | | | 07B68B6CC1:)9 | С |

Client Sample ID: BH03 Date Collected: 07/26/21 11:44 Date Received: 07/26/21 15:25

Sample Depth: - 10

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
|-----------------------------|-------------------|-----------|------------------|----------------|---|----------------|----------------|--------|
| gnt znt n | <0 © 0600 | A | 0 0 0600 | mdBKd | | 07B68B6C08:37 | 07B68B6CC):67 | |
| Eoi4nt n | <0 @ 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 07B68B6CC):67 | |
| 2W/5ibnt znt n | <0 @ 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 07B68B6CC):67 | |
| m-h5int n X &-h5int n | <0@0) 00 | Α | 000)00 | md B Kd | | 07B58B5C08:37 | 07B68B6CC):67 | |
| o-h 5int n | <0 © 0600 | Α | 0 © 0600 | md B Kd | | 07B58B5C08:37 | 07B68B6CC):67 | |
| h5int npsEoWi | <0 © 0) 00 | Α | 000)00 | md B Kd | | 07B58B5C08:37 | 07B68B6CC):67 | |
| EoV,MigE2h | <0@0)00 | Α | 0 © 0) 00 | mdBKd | | 07B68B6C08:37 | 07B68B6CC):67 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 14508 | |
| 194-6 ,fluorobenzene (Surr) | D4 | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 14508 | |

24jolet p h nt . osl , jipb, y

Lab Sample ID: 890-995-5

Matrix: Solid

I ient WS PU APc It . G Ujo/n. VBPeN/V: ged 2yy5 At eV/C10

Job ID: 890-991-C PDT: E200696006r

Client Sample ID: BH03

Lab Sample ID: 890-995-5

Date Collected: 07/26/21 11:44 Date Received: 07/26/21 15:25 **Matrix: Solid**

Sample Depth: - 10

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---------------|--------------|--------------|----------------|---|----------------|-------------------------|---------|
| T, poidena, t dn Rjd, t e p OraR(-Ir-IOO | <)90 | A |) 9 9 | mdBKd | | 07B68B6C00:00 | 07B68B6CC1:)7 | С |
| Denpnia, t dn Rjd, t e p ® vnj I OO-I 68(| <) 9 9 | Α |) 9 9 | mdBKd | | 0756856CCO:00 | 07B58B5CC1:)7 | С |
| Rlia, tdn Rjd, tep ØRvnj I 68-I 3r (| <) 9 9 | Α |) 9 9 | md B Kd | | 07B58B5C00:00 | 07B68B6CC1:)7 | С |
| Eo\M EUf | <) 9 9 | Α |) 9 © | md B Kd | | 07B68B6CC0:00 | 07B68B6CC1:)7 | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i Goroohd ne | D2 | | 87 - 137 | | | 78/02/01 175/7 | 78/02/01 1y <i>5</i> 48 | 1 |
| o-aerTCenpl | 170 | | 87 - 137 | | | 78/02/01 175/7 | 78/02/01 1y <i>5</i> 48 | 1 |
| - | N . | mby Colu | ıblo | | | | | |
| Method: 300.0 - Anions, Ion C | hromatogra | ipriy - Soiu | IDIC | | | | | |
| Method: 300.0 - Anions, Ion C Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: BH03 Lab Sample ID: 890-995-6

Date Collected: 07/26/21 12:30 **Matrix: Solid**

Date Received: 07/26/21 15:25

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: - 15

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
|---|---------------------------|------------|-------------------------|----------------|---|-------------------------|-----------------------------|--------|
| gnt znt n | <0000099 | A | 000099 | md B Kd | | 07B68B6C08:37 | 07B68B6CC):)8 | |
| Eoi4nt n | <0 © 0 C 99 | Α | 0 © 0 © 9 | md B Kd | | 07B68B6C08:37 | 07B68B6CC):)8 | |
| 2 W/5ibnt znt n | <0 © 0 © 99 | Α | 0 © 0 © 9 | md B Kd | | 07B68B6C08:37 | 07B68B6CC):)8 | |
| m-h5int n X &-h5int n | <0@0398 | Α | 0 © 0398 | md B Kd | | 07B68B6C08:37 | 07B58B5CC):)8 | |
| o-h 5int n | <0 © 0 © 9 | Α | 0 © 0 © 9 | md B Kd | | 07B68B6C08:37 | 07B68B6CC):)8 | |
| h5int npsEoV,Vi | <0 © 0398 | Α | 0 © 0398 | md B Kd | | 07B68B6C08:37 | 07B68B6CC):)8 | |
| Eo\M g E2h | <0 © 0398 | Α | 0 © 0398 | md B Kd | | 07B68B6C08:37 | 07B68B6CC):)8 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 171 | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 145 1 2 | |
| 194-6,fluorobenzene (Surr) | D4 | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 14 <i>5</i> 42 | |
| Method: 8015B NM - Diesel R | ange Organ | ics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| T, poidena, t dn Rjd, t e p OraR(-Ir-IO0 | <100 | A | 100 | md B Kd | | 07B58B5C CO:00 | 07B68B6C Or :07 | |
| Denpnia,tdn Rjd,tep ORvnj ICO-I68(| <100 | Α | 10 © | md B Kd | | 07E68E6C CO:00 | 07B68B6COr:07 | |
| Rlia, tdn Rjd, tep ORvnj I68-I3r (| <100 | Α | 10 © | md B Kd | | 07B58B5C 00:00 | 07B58B5CO::07 | |
| EoV,Vi EUf | <10₲ | Α | 10 © | md B Kd | | 07B68B6CC0:00 | 07B68B6C Or:07 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-i Gorooha ne | D: | | 87 - 137 | | | 78/02/01 175/7 | 78/02/01 1: 578 | |
| o-aerTCenpl | 171 | | 87 - 137 | | | 78/02/01 17 5 77 | 78/02/01 1: 5 78 | |
| Method: 300.0 - Anions, Ion C | hromatogra | phy - Solu | ble | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| | 36.6 | | 10) | mdBKd | | | 07B68B6C Or :CO | |

24jolet p h nt . osl , jipb, y

I ient WS PU APc It . G Ujo/n. VBP eM/: ged 2 yy5 At eMC10

Job ID: 890-991-C PDT: E200696006r

Client Sample ID: BH03 Lab Sample ID: 890-995-7 Date Collected: 07/26/21 13:46

Matrix: Solid

Date Received: 07/26/21 15:25 Sample Depth: - 18

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------------|-----------|------------------|----------------|---|----------------|-------------------------|---------|
| gnt znt n | <0 © 0606 | A | 0 0 0606 | mdBKd | | 07B68B6C08:37 | 07B68B6CC1:08 | C |
| Eoi4nt n | <0 © 0606 | Α | 0 © 0606 | md B Kd | | 07B68B6C08:37 | 07B68B6CC1:08 | С |
| 2 W/5ibnt znt n | <0 © 0606 | Α | 0 © 0606 | md B Kd | | 07B68B6C08:37 | 07B58B5CC1:08 | С |
| m-h5int n X &-h5int n | <0@0) 03 | Α | 0@0)03 | md B Kd | | 07B68B6C08:37 | 07B68B6CC1:08 | С |
| o-h 5int n | <0 © 0606 | Α | 0 © 0606 | md B Kd | | 07B68B6C08:37 | 07B58B5CC1:08 | С |
| h 5int nps Eo\;\/i | <0 © 0) 03 | Α | 0@0)03 | md B Kd | | 07B68B6C08:37 | 07B58B5CC1:08 | С |
| Eo,Wi g E2 h | <0 © 0) 03 | Α | 0 © 0) 03 | md B Kd | | 07B68B6C08:37 | 07B68B6CC1:08 | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 1y <i>5</i> 72 | 1 |
| 194-6 ,fluorobenzene (Surr) | D2 | | 87 - 137 | | | 78/02/01 72538 | 78/02/01 1y <i>5</i> 72 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|-------------|----------------|---|----------------|----------------|---------|
| T, poid n a, t dn Rjd, t e p Of a R(-I r-I O) | <100 | A | 100 | mdBKd | | 08B03B6CC1:37 | 08B03B6C63:18 | C |
| Denpnia, t dn Rjd, t e p ® vnj I 00-I 68(| <10@ | A | 10 © | md B Kd | | 08B03B6CC1:37 | 08B03B6C63:18 | С |
| Rlia, tdn Rjd, tep ORvnj I 68-I 3r (| <100 | Α | 10 © | mdBKd | | 08B03B6CC1:37 | 08B03B6C63:18 | С |
| Eo\M EUf | <10₲ | Α | 100 | md B Kd | | 08B03B6CC1:37 | 08B03B6C63:18 | С |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-i Goroohd ne | DD | | 87 - 137 | | | 72/73/01 1y538 | 72/73/01 035/2 | 1 |
| o-aerTCenpl | D4 | | 87 - 137 | | | 72/73/01 1v538 | 72/73/01 035/2 | 1 |

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|----------|--------|-----------|-----|-------|---|----------|------------------|---------|--|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| | Chloride | 26.5 | | 1@3 | mdBKd | | | 07B68B6C Or : Or | С | |

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-995-1 Project/Site: Big Eddy Unit 150 SDG: TE012921026

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| - | | | Pero | cent Surrogate Rec |
|---------------------------|------------------------|----------|----------|--------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-995-1 E | BH01 | 112 | 99 | |
| 890-995-1 MS | BH01 | 105 | 106 | |
| 890-995-2 E | BH02 | 97 | 98 | |
| 890-995-3 E | BH03 | 116 | 94 | |
| 890-995-4 E | BH03 | 116 | 98 | |
| 890-995-5 | BH03 | 111 | 94 | |
| 890-995-6 E | BH03 | 101 | 94 | |
| 890-995-7 E | BH03 | 110 | 98 | |
| LCS 880-5729/1-A | Lab Control Sample | 112 | 107 | |
| LCSD 880-5729/2-A I | Lab Control Sample Dup | 113 | 105 | |
| MB 880-5729/5-A | Method Blank | 99 | 90 | |
| Surrogate Legend | | | | |
| BFB = 4-Bromofluorobenze | ne (Surr) | | | |
| DFBZ = 1,4-Difluorobenzen | e (Surr) | | | |

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------|------|--|
| | | BFB1 | DFBZ1 |
| Lab Sample ID | Client Sample ID | | |
| 890-995-1 MSD | BH01 | | |
| Surrogate Legend | | | |
| BFB = 4-Bromofluo | robenzene (Surr) | | |
| DFBZ = 1,4-Difluoro | obenzene (Surr) | | |

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

| | | | Percent Surrogate Recove | ery (Acceptance Limits) |
|-------------------|------------------------|----------|--------------------------|-------------------------|
| | | 1001 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | ' 0-130) | |
| 390-995-1 | BH01 | 108 | 125 | |
| 390-995-2 | BH02 | 106 | 122 | |
| 390-995-3 | BH03 | 83 | 84 | |
| 390-995-4 | BH03 | 112 | 113 | |
| 390-995-5 | BH03 | 98 | 102 | |
| 390-995-6 | BH03 | 96 | 101 | |
| 390-995-7 | BH03 | 99 | 94 | |
| _CS 880-5604/2-A | Lab Control Sample | 89 | 90 | |
| _CS 880-5924/2-A | Lab Control Sample | 100 | 107 | |
| _CSD 880-5604/3-A | Lab Control Sample Dup | 103 | 102 | |
| _CSD 880-5924/3-A | Lab Control Sample Dup | 108 | 115 | |
| MB 880-5604/1-A | Method Blank | 97 | 96 | |
| MB 880-5924/1-A | Method Blank | 92 | 111 | |
| Surrogate Legend | | | | |

Eurofins Xenco, Carlsbad

I ient WS PU APc It . G Ujo/n. VBPeNV: ged 2yy5 At eVVC10 Job ID: 890-991-C

PDT: E200696006r

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5729/5-A

Matrix: Solid

Analyte

Analysis Batch: 5734

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 5729

MB MB Result Qualifier Unit Dil Fac RL D Prepared Analyzed <0**©**0600 A 0**©**0600 mdBKd 07B58B5C08:37 07B58B5C06:44 С <000000 A **0©**0600 mdBKd 07B58B5C08:37 07B58B5CC6:44 С <0**©**0600 A 0765865C08:37 0765865CO6:44 С 0**©**0600 mdBKd

gnt znt n Eoiunt n 2 Wh5ibnt znt n m-X5int n & p-X5int n <0**©**0400 A 0@0400 mdBKd 07B68B6C08:37 07B58B5C C6:44 o-X5int n <0@0600 A 0.0000 mdBKd 07B68B6C08:37 07F68F6C C6:44 mdBKd 07B68B6C08:37 X5int ns, EoVa/i <0**©**0400 A 0@0400 07F68F6C C6:44 <0**©**0400 A O**©**0400 mdBKd 07B58B5C08:37 07B68B6CC6:44 EoVavi g E2 X

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 08 - 738 80/25/27 85:30 80/25/27 72:44 4-Bromofluorobenzene (Surr) 11 794-6, fluorobenzene (Surr) 08 - 738 18 80/25/27 85:30 80/25/27 72:44

Lab Sample ID: LCS 880-5729/1-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 5729

Spike LCS LCS %Rec. **Analyte** Added Result Qualifier Unit %Rec Limits 0@00 0@099 gnt znt n mdBKd ∞ 70 - C30 0@00 0@068 Eoiunt n mdBKd ωз 70 - C30 2 W/5ibnt znt n 0@00 0@037 mdBKd Ω 4 70 - C300600 0**6**06r Ωr 70 - C30 m-X5int n & p-X5int n mdBKd 0**©**0r 4 0@00 o-X5int n mdBKd Ωr 70 - C30

LCS LCS

| Surrogate | %Recovery Qualif | ier Limits |
|-----------------------------|------------------|------------|
| 4-Bromofluorobenzene (Surr) | 772 | 08 - 738 |
| 794-6 fluorobenzene (Surr) | 780 | 08 - 738 |

Lab Sample ID: LCSD 880-5729/2-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5729

Spike LCSD LCSD %Rec. **RPD Analyte** Added Result Qualifier Unit D %Rec Limits **RPD** I imit gnt znt n 0@00 0@011 mdBKd 001 70 ₋ C30 4 31 Eoiunt n 0@00 0@9847 mdBKd 98 70 - C3031 99 70 - C30 2 W/5ibnt znt n 0@00 0@9811 mdBKd 31 006 m-X5int n & p-X5int n 0600 0604C mdBKd 70 - C30 31 0@00 **C**06 o-X5int n 000008 mdBKd 70 - C30 31

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 773 08 - 738 794-6, fluorobenzene (Surr) 08 - 738 78D

Lab Sample ID: 890-995-1 MSD

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: BH01 Prep Type: Total/NA Prep Batch: 5729 Sample Sample MSD MSD **RPD** Spike %Rec.

Result Qualifier Added Result Qualifier D Limits **RPD** Limit Analyte Unit %Rec gnt znt n <000008 A 0@994 0@9989 mdBKd

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I ient WS PU APc It . G Ujo/n. VBPeNV: ged 2yy5 At eVVC10 Job ID: 890-991-C

Client Sample ID: BH01

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 5604

PDT: E200696006r

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

Lab Sample ID: 890-995-1 MSD **Client Sample ID: BH01 Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 5734** Prep Batch: 5729 MSD MSD **RPD** Sample Sample Spike %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Eoiunt n <0**0**00098 Α 0@994 0@9634 mdRKd 2 W/5ibnt znt n <0000098 A 0@994 0**©**968r mdBKd 0@99 0@909 m-X5int n & p-X5int n <0**©**039r A mdBKd 0@994 o-X5int n <0000008 A 0@9400 mdBKd

MSD MSD

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 794-6, fluorobenzene (Surr)

Lab Sample ID: 890-995-1 MS

Matrix: Solid

Analysis Batch: 5734

794-6, fluorobenzene (Surr)

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 78D 08 - 738 78i 08 - 738

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

Lab Sample ID: MB 880-5604/1-A **Matrix: Solid**

Analysis Batch: 5741 MB MB

Result Qualifier RL Unit D Dil Fac Analyte Prepared Analyzed Tasoiet n Oat dn (jdates <100 A 10**©** mdBKd 07B63B6CC4:43 07B68B6C CC:37)TO(v-l r-l 00 07B53B5CC4:43 07B58B5CCC:37 Densni Oat dn (jdat es)(fnj С <100 A 100 mdBKd I CO-I 68v <1009 A 10**©** mdBKd 07B63B6CC4:43 07B68B6CCC:37 С (li Oat dn (jdat es)(fnj l 68-l 3r v EoVa/i EUH <100 A 10**©** mdBKd 07B53B5CC4:43 07B68B6C CC:37 C

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 7-Chlorooctane 10 08 - 738 80/23/27 74:43 80/25/27 77:30 o-Terphenyl 1i 08 - 738 80/23/27 74:43 80/25/27 77:30

Lab Sample ID: LCS 880-5604/2-A

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA **Analysis Batch: 5741** Prep Batch: 5604

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Tasoie n Oat dn (jdat es 0000 8348 mdBKd 83 70 ₋ C30)TO(v-l r-l 00 Densni Oat dn (jdat es)(fnj ∞ 00 869**G** mdBKd 83 70 - C30

I CO-I 68v

LCS LCS %Recovery Qualifier Limits Surrogate 7-Chlorooctane 51 08 - 738 o-Terphenyl 18 08 - 738

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Released to Imaging: 2/28/2022 4:36:12 PM

I ient WS PU APc It . G Ujo/n. VBP eM/: ged 2 yy5 At eMC10

Job ID: 890-991-C PDT: E200696006r

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

Lab Sample ID: LCSD 880-5604/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 5741

Prep Batch: 5604

| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|--------------------------|-------|--------------|-----------|----------------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Tasoietn Oat dn (jdates | 0000 | 948 © | | mdBKd | | 91 | 70 - C30 | | 60 |
|)TO(v-l r-l 00 | | | | | | | | | |
| DensniOatdn (jdates)(fnj | ∞00 | 91r G | | md B Kd | | 9r | 70 - C30 | C4 | 60 |
| I M-I 68v | | | | | | | | | |

LCSD LCSD

Surrogate %Recovery Qualifier Limits 7-Chlorooctane 08 - 738 783 782 08 - 738 o-Terphenyl

Lab Sample ID: MB 880-5924/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA Prep Batch: 5924

Analysis Batch: 5934

| | MB | MB | | | | | | |
|---------------------------------|--------------|-----------|-------------|-------|---|----------------|---------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Tasoid n Oat dn (jdat es | <10 © | A | 100 | mdBKd | | 07B3CB6C CO:49 | 08B0CB6CC3:C3 | C |
|)TO(v-l r-l 00 | | | | | | | | |
| Densni Oat dn (jdat es)(fnj | <10 © | Α | 10 © | mdBKd | | 07B3CB5CC0:49 | 08B0CB6CC3:C3 | С |
| I CO-I 68v | | | | | | | | |
| (liOatdn (jdates)(fnjl 68-l 3rv | <10 © | Α | 10 © | mdBKd | | 07B3CB6CC0:49 | 08B00B6CC3:C3 | С |
| Eo\&/i EUH | <10 © | Α | 10 © | mdBKd | | 07B3CB5CC0:49 | 08B0CB6CC3:C3 | С |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 7-Chlorooctane | 12 | | 08 - 738 | 80/37/27 78:41 | 85/87/27 73:73 | 7 |
| o-Terphenyl | 777 | | 08 - 738 | 80/37/27 78:41 | 85/87/27 73:73 | 7 |

Lab Sample ID: LCS 880-5924/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 5934

Prep Type: Total/NA Prep Batch: 5924

| | Spike | LCS | LCS | | | | %Rec. | |
|-----------------------------|-------|--------------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Tasoit n Oat dn (jdat es | 0000 | 971 6 | | mdBKd | | 98 | 70 - C30 | |
|)TO(v-l r-l 00 | | | | | | | | |
| Densni Oat dn (jdat es)(fnj | ∞00 | C 070 | | mdBKd | | Ω7 | 70 - C30 | |
| I CO-I 68v | | | | | | | | |

LCS LCS

Lab Sample ID: LCSD 880-5924/3-A

Surrogate %Recovery Qualifier Limits 7-Chlorooctane 788 08 - 738 08 - 738 o-Terphenyl 780

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

Matrix: Solid Analysis Batch: 5934

Prep Batch: 5924

| Alialysis Dalcii. 3334 | | | | | | | Fieh | Datell. | 3324 |
|--------------------------|-------|--------------|-----------|-------|---|------|----------|---------|-------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Tasoietn Oat dn (jdates | | 9C1 4 | | mdBKd | | 96 | 70 - C30 | r | 60 |
|)TO(v-l r-l 00 | | | | | | | | | |
| DensniOatdn (jdates)(fnj | O000 | 0009 | | mdBKd | | 0006 | 70 - C30 | 1 | 60 |
| I CO-I 68v | | | | | | | | | |

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I ient WS PU APc It . G Ujo/n. VBP Nov ged 2 yy 5 At Nov C10 Job ID: 890-991-C

PDT: E200696006r

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

Lab Sample ID: LCSD 880-5924/3-A **Matrix: Solid**

Analysis Batch: 5934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH01

Client Sample ID: BH01

Prep Type: Soluble

Prep Type: Soluble

Prep Batch: 5924

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

LCSD LCSD

%Recovery Qualifier Limits Surrogate 7-Chlorooctane 785 08 - 738 o-Terphenyl 77D 08 - 738

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5753/1-A

Matrix: Solid

Analysis Batch: 5764

MB MB

RL **Analyte** Result Qualifier Unit Prepared Analyzed Dil Fac 1000 mdBKd 07B68B6CC1:0r l hiojeyn <1000 A

LCS LCS

Lab Sample ID: LCS 880-5753/2-A

Matrix: Solid

Analysis Batch: 5764

Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits l hiojeyn 610 64r **4** 99 90 - 000

Lab Sample ID: LCSD 880-5753/3-A

Matrix: Solid

Analysis Batch: 5764

Spike LCSD LCSD **RPD** %Rec. Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 610 mdBKd 90 - 000 I hiojeyn 64r **G** 99

Lab Sample ID: 890-995-1 MS

Matrix: Solid

Analysis Batch: 5764

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Unit D %Rec Analyte 649 176**6** mdBKd 96 90 - 000 I hiojeyn 346

Lab Sample ID: 890-995-1 MSD

Matrix: Solid

Analysis Batch: 5764

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Limits RPD **Analyte** Result Qualifier Unit %Rec Limit l hiojeyn 346 649 1703 mdBKd 96 90 - 000 60

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Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-995-1

SDG: TE012921026

GC VOA

Prep Batch: 5729

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-995-1 | BH01 | Total/NA | Solid | 5035 | |
| 890-995-2 | BH02 | Total/NA | Solid | 5035 | |
| 890-995-3 | BH03 | Total/NA | Solid | 5035 | |
| 890-995-4 | BH03 | Total/NA | Solid | 5035 | |
| 890-995-5 | BH03 | Total/NA | Solid | 5035 | |
| 890-995-6 | BH03 | Total/NA | Solid | 5035 | |
| 890-995-7 | BH03 | Total/NA | Solid | 5035 | |
| MB 880-5729/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-5729/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-5729/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-995-1 MSD | BH01 | Total/NA | Solid | 5035 | |

Analysis Batch: 5734

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-995-1 | BH01 | Total/NA | Solid | 8021B | 5729 |
| 890-995-2 | BH02 | Total/NA | Solid | 8021B | 5729 |
| 890-995-3 | BH03 | Total/NA | Solid | 8021B | 5729 |
| 890-995-4 | BH03 | Total/NA | Solid | 8021B | 5729 |
| 890-995-5 | BH03 | Total/NA | Solid | 8021B | 5729 |
| 890-995-6 | BH03 | Total/NA | Solid | 8021B | 5729 |
| 890-995-7 | BH03 | Total/NA | Solid | 8021B | 5729 |
| MB 880-5729/5-A | Method Blank | Total/NA | Solid | 8021B | 5729 |
| LCS 880-5729/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 5729 |
| LCSD 880-5729/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 5729 |
| 890-995-1 MS | BH01 | Total/NA | Solid | 8021B | |
| 890-995-1 MSD | BH01 | Total/NA | Solid | 8021B | 5729 |

GC Semi VOA

Prep Batch: 5604

| Lab Sample ID 890-995-4 | Client Sample ID BH03 | Prep Type Total/NA | Matrix Solid | Method Prep | p Batch |
|----------------------------|------------------------|--------------------|--------------|-------------|---------|
| 890-995-5 | BH03 | Total/NA | Solid | 8015NM Prep | |
| 890-995-6 | BH03 | Total/NA | Solid | 8015NM Prep | |
| MB 880-5604/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5604/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5604/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5741

| Lab Sample ID 890-995-4 | Client Sample ID BH03 | Prep Type Total/NA | Matrix Solid | Method 8015B NM | Prep Batch 5604 |
|-----------------------------------|------------------------|--------------------|--------------|--------------------|-----------------|
| 890-995-5 | BH03 | Total/NA | Solid | 8015B NM | 5604 |
| 890-995-6 | BH03 | Total/NA | Solid | 8015B NM | 5604 |
| MB 880-5604/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5604 |
| LCS 880-5604/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5604 |
| LCSD 880-5604/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5604 |

Prep Batch: 5924

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-995-1 | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-995-2 | BH02 | Total/NA | Solid | 8015NM Prep | |

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Client: WSP USA Inc. Job ID: 890-995-1 Project/Site: Big Eddy Unit 150 SDG: TE012921026

GC Semi VOA (Continued)

Prep Batch: 5924 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| MB 880-5924/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-5924/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-5924/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 5934

| Lab Sample ID 890-995-1 | Client Sample ID BH01 | Prep Type Total/NA | Matrix Solid | Method 8015B NM | Prep Batch 5924 |
|----------------------------|------------------------|--------------------|-----------------|--------------------|--------------------|
| 890-995-2 | BH02 | Total/NA | Solid | 8015B NM | 5924 |
| MB 880-5924/1-A | Method Blank | Total/NA | Solid | 8015B NM | 5924 |
| LCS 880-5924/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 5924 |
| LCSD 880-5924/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 5924 |

Analysis Batch: 6001

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-995-3 | BH03 | Total/NA | Solid | 8015B NM | 6026 |
| 890-995-7 | BH03 | Total/NA | Solid | 8015B NM | 6026 |

Prep Batch: 6026

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-995-3 | BH03 | Total/NA | Solid | 8015NM Prep | |
| 890-995-7 | BH03 | Total/NA | Solid | 8015NM Prep | |

HPLC/IC

Leach Batch: 5753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-995-1 | BH01 | Soluble | Solid | DI Leach | |
| 890-995-2 | BH02 | Soluble | Solid | DI Leach | |
| 890-995-3 | BH03 | Soluble | Solid | DI Leach | |
| 890-995-4 | BH03 | Soluble | Solid | DI Leach | |
| 890-995-5 | BH03 | Soluble | Solid | DI Leach | |
| 890-995-6 | BH03 | Soluble | Solid | DI Leach | |
| 890-995-7 | BH03 | Soluble | Solid | DI Leach | |
| MB 880-5753/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-5753/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-5753/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-995-1 MS | BH01 | Soluble | Solid | DI Leach | |
| 890-995-1 MSD | BH01 | Soluble | Solid | DI Leach | |

Analysis Batch: 5764

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-995-1 | BH01 | Soluble | Solid | 300.0 | 5753 |
| 890-995-2 | BH02 | Soluble | Solid | 300.0 | 5753 |
| 890-995-3 | BH03 | Soluble | Solid | 300.0 | 5753 |
| 890-995-4 | BH03 | Soluble | Solid | 300.0 | 5753 |
| 890-995-5 | BH03 | Soluble | Solid | 300.0 | 5753 |
| 890-995-6 | BH03 | Soluble | Solid | 300.0 | 5753 |
| 890-995-7 | BH03 | Soluble | Solid | 300.0 | 5753 |
| MB 880-5753/1-A | Method Blank | Soluble | Solid | 300.0 | 5753 |
| LCS 880-5753/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 5753 |
| LCSD 880-5753/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 5753 |

Eurofins Xenco, Carlsbad

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-995-1

SDG: TE012921026

HPLC/IC (Continued)

Analysis Batch: 5764 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-995-1 MS | BH01 | Soluble | Solid | 300.0 | 5753 |
| 890-995-1 MSD | BH01 | Soluble | Solid | 300.0 | 5753 |

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Job ID: 890-991-r

SDG: Td 0r 292r 026

Pjo/ectBSite: giEdyy5 Unit r 10 **Client Sample ID: BH01**

Client: WSP USA Inc.

Lab Sample ID: 890-995-1

Matrix: Solid

Date Collected: 07/26/21 08:44 Date Received: 07/26/21 15:25

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|----------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07B28B2r 08:37 | KL | Xd N MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 07E28E2rr3:06 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 1924 | 07B3rB2rr0:49 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 1934 | 08B0rB2r 20:r2 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07B28B2rr1:22 | SC | XdN MID |

Lab Sample ID: 890-995-2

Date Collected: 07/26/21 10:15 Date Received: 07/26/21 15:25

Client Sample ID: BH02

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07E28E2r 08:37 | KL | XdN MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 07E28E2rr3:26 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 1924 | 07B3rB2rr0:49 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 1934 | 08B0rB2r 20:34 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07E28E2rr1:38 | SC | XdN MID |

Client Sample ID: BH03 Lab Sample ID: 890-995-3 Date Collected: 07/26/21 10:51

Matrix: Solid

Date Received: 07/26/21 15:25

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07E28E2r 08:37 | KL | XdN MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 07E28E2rr3:47 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 6026 | 08B03B2rr1:37 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 600r | 08B03B2r 23:37 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07E28E2rr1:43 | SC | XdN MID |

Client Sample ID: BH03 Lab Sample ID: 890-995-4 Date Collected: 07/26/21 11:02 Matrix: Solid

Date Received: 07/26/21 15:25

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|-----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07E28E2r 08:37 | KL | XdN MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 0752852rr4:07 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 1604 | 07E28E2rr0:00 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 174r | 07E28E2rr1:26 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07B28B2r r 1:49 | SC | XdN MID |

dujoins Xencof Cajlsbay

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-991-r Pjo/ectBite: giEdyy5 Unit r 10 SDG: Td 0r 292r 026

Client Sample ID: BH03

Lab Sample ID: 890-995-5

Matrix: Solid

Date Collected: 07/26/21 11:44 Date Received: 07/26/21 15:25

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07E28E2r 08:37 | KL | XdN MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 07B28B2rr4:27 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 1604 | 07B28B2rr0:00 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 174r | 07B28B2rr1:47 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07E28E2rr1:14 | SC | XdN MID |

Lab Sample ID: 890-995-6 **Client Sample ID: BH03** Date Collected: 07/26/21 12:30 **Matrix: Solid**

Date Received: 07/26/21 15:25

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07E28E2r 08:37 | KL | XdN MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 07E28E2rr4:48 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 1604 | 07E28E2rr0:00 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 174r | 07E28E2rr6:07 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07E28E2rr6:r0 | SC | XdN MID |

Lab Sample ID: 890-995-7 **Client Sample ID: BH03** Date Collected: 07/26/21 13:46 **Matrix: Solid**

Date Received: 07/26/21 15:25

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|--------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| TotalBNA | Pjep | 1031 | | | 1729 | 07E28E2r 08:37 | KL | XdN MID |
| TotalBNA | Anal5sis | 802r g | | r | 1734 | 07E28E2rr1:08 | KL | XdN MID |
| TotalBNA | Pjep | 80r 1NM Pjep | | | 6026 | 08B03B2rr1:37 | DM | XdN MID |
| TotalBNA | Anal5sis | 80r 1g NM | | r | 600r | 08B03B2r 23:18 | AJ | XdN MID |
| Soluble | Leach | DI Leach | | | 1713 | 07E28E2rr3:03 | SC | XdN MID |
| Soluble | Anal5sis | 300.0 | | r | 1764 | 07E28E2rr6:r6 | SC | XdN MID |

Laboratory References:

XdN MID, dujo=ns Xencof Miylanyf r 2rr W. Flojiya Avef Miylanyf TX 7970r f TdL (432)704-1440

dujoins Xencof Cajlsbay

Released to Imaging: 2/28/2022 4:36:12 PM

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-991-r Pjo/ectBite: giEdyy5 Unit r 10 SDG: Td 0r 292r 026

Laboratory: Eurofins Xenco, Midland

Unless othejwise notey, all anal5tes foj this labojatoj 5 weje covejey unyej each accjeyitation bej tification below.

| Authority | · · | Program | Identification Number | Expiration Date |
|---|--------------------------|-------------------------------|---|--------------------------------------|
| Texas | 1 | NdLAP | Tr 04704400-20-2r | 06-30-22 |
| The followinE anal5te the aEenc5 yoes not | | pojt, but the labojatoj5 is r | not cejtifiey b5 the EovejninE authojit5. | This list ma5 incluye anal5tes foj w |
| | | | | |
| Anal5sis Methoy | Pjep Methoy | Matjix | Anal5te | |
| Anal5sis Methoy 80r 1g NM | Pjep Methoy 80r 1NM Pjep | Matjix Soliy | Anal5te Total TPH | |

dujofins Xenco, Cajlsbay

Method Summary

I ient WS PU APc It . G Ujo/n. VBP eM/: g ed 2 yy5 At eMC10 Job ID: 890-991-C

PDT: E200696006r

| Method | Method Description | Protocol | Laboratory |
|--------------|--|----------|------------|
| 806Cg | Voia Wah Ojdat e I ompout ys (TI) | PS 84r | X2N MID |
| 80C1g NM | Densni Rat dn Ojdat e s (DRO) (TI) | PS 84r | X2N MID |
| 300 © | cteots, lot I hjoma\bdjaph5 | MIcSS | X2N MID |
| 1031 | I iosny P5s W m Uujdn at y Ejap | PS 84r | X2N MID |
| 80C1NM Ujnp | Mejonx\ y Ya.\Hoot | PS 84r | X2N MID |
| DI Lna. h | Dneotezny SaWn Lna. hetd Ujo. nyujn | cPEM | X2N MID |

Protocol References:

cPEM = cPEM It Whit a Webt ai

MI cSS = "MnWoys Foj I hnme ai ct ai5ses Of SaWij ct y SasWis", 2 Uc-r 0054-79-060, Maj. h C983 ct y Pubsnqunt WRnvesert sG PS 84r = "EnsVM/nVMoys Foj 2 vaiua VM/d Poiey S as VM, Uh5se ai Bhnme ai MnVMoys", Ehey 2 yeke/dt, Novnmbnj C98r cty IV2/Apya VMsG

Laboratory References:

X2N MID = 2ujofe s Xnt . o, Meyiat y, C6CCS CFiojeya c vn, Meyiat y, EX 7970C, E2L (436)704-1440

2ujofets Xnt.o, I ajisbay

Sample Summary

Client: WSP USA Inc.

Project/Site: Big Eddy Unit 150

Job ID: 890-995-1 SDG: TE012921026

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-995-1 | BH01 | Solid | 07/26/21 08:44 | 07/26/21 15:25 | - 18 |
| 890-995-2 | BH02 | Solid | 07/26/21 10:15 | 07/26/21 15:25 | - 18 |
| 890-995-3 | BH03 | Solid | 07/26/21 10:51 | 07/26/21 15:25 | - 1 |
| 890-995-4 | BH03 | Solid | 07/26/21 11:02 | 07/26/21 15:25 | - 5 |
| 890-995-5 | BH03 | Solid | 07/26/21 11:44 | 07/26/21 15:25 | - 10 |
| 890-995-6 | BH03 | Solid | 07/26/21 12:30 | 07/26/21 15:25 | - 15 |
| 890-995-7 | BH03 | Solid | 07/26/21 13:46 | 07/26/21 15:25 | - 18 |

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Project Manager:

Da

Company Name:

Phone:

City, State ZIP:

Midland, TX 79705 (432) 236-3849

\ddress:

P.O. Number:

Project Number: Project Name:

JE01374 1036

NRM 2024854865

Rush: 2412

Routine

Essa

Unt

150

Turn Around

Jeremy.Hill@wsp.com. City, State ZIP:

Dan.Moir@wsp.com

ANALYSIS REQUEST

Deliverables: EDD

ADaPT |

Other:

Work Order Notes

1080741001

Carlsbad, NM 88220

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| | 0 | Chain of Custody | Work Order No: |
|------------------|--|--|--|
| | Houston,TX (281) 240-4200 [Midland,TX (432-704-5440) | 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 | |
| 4.5.5 | Hobbs,NM (575-392-7550) Phoenix,AZ (4 | Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-820-2000) | 3-620-2000) www.xenco.com Page / off |
| Moir | Bill to: (if different) Kyle Littrell | Kyle Littrell | Work Order Comments |
| PUSA | Company Name: XTO Energy | XTO Energy | Program: UST/PST _RPprownfields _RCperfund |
| 0 North A Street | Address: | 522 W. Mermod St. | State of Project: |
| land, TX 79705 | City, State ZIP: | City, State ZIP: Carlsbad, NM 88220 | Reporting:Level IIIST/USTRP U_Evel IV |

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 \$76.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Sampler's Name: 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 Sample Custody Seals: Received Intact: SAMPLE RECEIPT emperature (°C): ooler Custody Seals: Relinquished by: (Signature) Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Sample Identification BACO 3,404 0504 BITCO Birch SHO ひてるよ Yes 200.8 / 6020: Yes \No 60 Temp Blank: 8 4 Jeremy Hill No Matrix NA NA 10/201 Sampled Received by: (Signature) Date Correction Factor: Total Containers: 8RCRA TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1180 hermometer ID Sampled 5101 100 150 346 コキー >30 Time Wet Ice: Due Date: 7/34/3 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg 8 151 Depth 18. 10. 3 **Number of Containers** Date/Time TPH (EPA 8015) BTEX (EPA 0=8021) 152 Chloride (EPA 300.0) Relinquished by: (Signature) 890-995 Chain of Custody Mn Mo Ni Received by: (Signature) K Se Ag SiO2 Na Sr TI Sn U V 1631 / 245.1 / 7470 / 7471 : Hg かって EW. 3031,01563, EXP.C TAT starts the day received by lab, if received by 4:30pm Sample Comments CHYCLE Revised Date 051418 Rev. 2018.1 Date/Time Zn

Page 23 of 26

1089 N Canal St.

Eurofins Xenco, Carlsbad

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Chain of Custody Record

: eurofins

Environment Testing America

BH04 (890-995-4) BH04 (890-995-7) BH04 (890-995-6) BH04 (890-995-5) BH04 (890-995-3) BH02 (890-995-2) BH01 (890-995-1) Big Eddy Unit 150 State Zip TX, 79701 Deliverable Requested I, II III IV Other (specify) Possible Hazard Identification fole. Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently realistic accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199 impty Kit Relinquished by LC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Shipping/Receiving Client Information Viidland 211 W Florida Ave Custody Seals Intact. oject Name urofins Xenco iquished by iquished by iquished by △ Yes △ No 3 (Sub Contract Lab) Custody Seal No Phone WO# PO# Due Date Requested 7/28/2021 Date/Time Primary Deliverable Rank 2 SSOW# 89000004 TAT Requested (days) roject # imple Date 7/26/21 7/26/21 7/26/21 7/26/21 7/26/21 7/26/21 7/26/21 Mountain Mountain 12 30 Mountain 11 44 Mountain 11 02 Mountain 10 51 Mountain 10 15 Mountain 13 46 Sample 08 44 G=grab) (C=comp Sample Preservation Code Type Company SCHOOL (Wewater Sesolid, Owwaste/oil BTeTissue, Solid Solid Solid Solid Solid Solid Solid essica kramer@eurofinset.com Kramer Jessica Field Filtered Sample (Yes or No) Ime Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Perform MS/MSD (Yes or No) Received by × × × × × × × 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks Return To Client × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × 8021B/5035FP_Calc BTEX Analysis Requested Disposal By Lab New Mexico Carrier Tracking No(s) State of Origin: Method of Shipment Date/Time Date/Time Date/Time Archive For Total Number of containers 4 A HCL B NaOH C Zn Acetate D Nitric Acid F MacOH G Amchior H Ascorbic Acid I loc J DI Water K EDTA L EDA 890-320 1 Preservation Codes. 890-995-1 Job # Page 1 of 1 age Special Instructions/Note: SZOTOKNH D > SN Company Company Na2O4S Na2SO3 Na2SO3 Na2SO3 Na2SO4 TSP Dodecatydrate MCAA. Acetone Months

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-995-1

SDG Number: TE012921026

List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Login Number: 995

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

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-995-1
SDG Number: TE012921026

List Source: Eurofins Xenco, Midland

List Creation: 07/28/21 10:55 AM

List Number: 2 Creator: Lowe, Katie

Login Number: 995

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

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|---------------------|-------------------|----------------|----------|-----------------|---------------------------------------|---------------------|-------------|--|-------------|------------------------------------|
| 7 | 119 | | 7 | | WSP USA | | | BH01 | | 7/21/2021 & 7/26/2021 |
| \ | | 7 I | | Ε. | | 9 | | | | 7/21/2021 & 7/26/2021 |
| | | | | 5U Carl | 08 West Stevens S sbad, New Mexico | areet 88220 | | Site Name: Big Eddy I Incident Number NRM | | F |
| | | | | Ouri | sbad, New Mexico | 00220 | | WSP Job Number: TE | | |
| | | LITH | | CIC / SOIL | SAMPLING LO | | | | | |
| I at/I a | ng: 32.478 | | | | Field Screening: | G | | Logged By: JH | | Method: Backhoe/Core Drill |
| LavLo | ing: 32.478 | 372, -104. | .11118 | | HACH chloride strips | s PID | | Hole Diameter: NA | | Total Depth: 18 feet bgs |
| Comm | | | | | | | | | | |
| Chlori | de test per | formed w | ith 1:4 | dilution factor | of soil to distilled wat | | do not incl | ude correction factor. S | SAA - Same | As Above |
| | 40 | | _ | # | | USCS/Rock Symbol | | | | |
| Moisture Content | Chloride (ppm) | j (E | Staining | Sample # | Sample Depth | 'Ro bol | | | thata /D | and a |
| lois on | old) | Vapor (ppm) | tair | amg mg | Depth (ft bgs) | CS, | | Li | thology/R | emarks |
| ≥ 0 | 0 | | S | Š | (it bgs) | S S | | | | |
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| | | | | | l T | | | | | |
| Dry | 1,652 | 0.2 | Ν | BH01 | 15 <u>T</u> 15 | SP-SC | | rly-graded sand (f | .) with cla | y, slight plasticity, no stain, no |
| | | | | | ļ ļ | | odor | | | |
| | | | | | + | | | | | |
| | | | | | | | | | | |
| Dry | 340 | 0.1 | N | BH01 | 18 🕇 18 | CCHE | CALICH | E, dry, off white, m | noderately | consolidated, no stain, no odo |
| | | | | | <u> </u> | | | , , , | , | , |
| | | | | | | TD | 18' bgs | | | |
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|--------------------------------|---|----------------|----------|--------------|-----------------------------|----------------------------------|---------------------|-----------|---|-------------|-------------------------------------|
| | | | | Carl | 08 West S sbad, Nev | stevens S w Mexico | 88220 | | Site Name: Big Eddy Incident Number NRM | | 35 |
| | | | | | | | | | WSP Job Number: TE | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | Logged By: JH | | Method: Backhoe/Core Drill | | |
| Lat/Lo | Lat/Long: 32.478727, -104.111295 Field Screening: | | | | | | Hole Diameter: | | Total Depth: | | |
| Comm | nents: | | | | HACH chl | oride strips | s, PID | | NA | | 18 feet bgs |
| | Chloride test performed with 1:4 dilution factor of soil to distilled water. Values do not include correction factor. SAA - Same As Above | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | (ft bgs) | USCS/Rock Symbol | | Li | thology/R | demarks |
| Dry | 1,268 | 0.1 | Z | BH02 | 12 | 0 5 10 - 12 | SP-SC | odor | orly-graded sand (f | .) with cla | ay, slight plasticity, no stain, no |
| Dry | 1,268 | 0.1 | N N | BH02 BH02 | 15 _ - - 18 | _ 15 _ - _ _ _ 18 | SP-SC | | E, dry, off white, m | noderately | / consolidated, no stain, no odo |
| لــــاا | _ | | | _ | _ | | | | | | |
| \parallel | | | | | | | TD |) 18' bgs | | | |
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| WSP USA | | | | | | | PH Name: | Dat | | | |
|--------------------------------|-------------------|----------------|-----------|-----------------|------------------------------------|--------------|------------------------|-----------------|----------------------------|---------------|-------------------------------|
| | | | | | | | BH03 | 7/2 | 1/2021 & 7/26/2021 | | |
| | | | | | | | Site Name: Big Eddy Un | | | | |
| Canspau, New Mexico 88220 | | | | | | | Incident Number NRM20 | | | | |
| | | | | | | | | | WSP Job Number: TE01 | 12920126 | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | Logged By: JH | | thod: Core Drill | | |
| Lat/Lo | ng: 32.478 | 3705, -104 | 1.11103 | 2 | Field Scre | | | | Hole Diameter: | | al Depth: |
| Comm | ents: | | | | HACH chi | oride strips | s, PID | | 1.75" | 181 | feet bgs |
| | | formed w | ith 1:4 d | dilution factor | of soil to di | istilled wat | er. Values | do not incl | ude correction factor. SA/ | A - Same As A | Above |
| | | | | ** | | | 长 | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | (ft bgs) | USCS/Rock Symbol | | Lith | ology/Rem | arks |
| | | | | | | 0 | | | | | |
| Dry | 212 | 0.1 | N | BH03 | 1 <u>-</u> | 1 | SP | Brown - odor | red, poorly-graded s | sand (f.), lo | w plasticity, no stain and no |
| Dry | 240 | 0.2 | Ν | BH03 | 5 - | 5 | SP-SC | Red poo | orly-graded sand (f.) | with clay, lo | ow plasticity, no stain and |
| Dry | 212 | 0.4 | Ν | BH03 | 10 _ - - 10 _ - | 10 | SP-SC | SAA | | | |
| Dry | 132 | 0.3 | N N | BH03 | 15 _ - - - - - - | 15 | | odor | | | onsolidated, no stain, no |
| | | | | | • | | | no odor | | | |
| | TD 18' bgs | | | | | | | | | | |

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

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

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

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

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

CONDITIONS

Action 41924

CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 41924 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|---|-------------------|
| jnobui | Remediation Plan Approved. DEFERRAL REQUEST DENIED. OCD requires three (3) soil samples from the deferred area from 1 and 4 ft bgs to be analyzed for constituents of concern in order to approve deferral request. If collection of soil samples are not feasible due to obstructions, please provide OCD with photographic evidence. Please resubmit deferral request through the OCD portal. | 2/28/2022 |