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 | NAPP2101333095 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

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

## Location of Release Source

Latitude 32.01811 Longitude -103.93631
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Ross Draw 25 N | Site Type Battery |
| Date Release Discovered 1-7-21 | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| B | 25 | 26S | 29E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☒ Produced Water | Volume Released (bbls) 18.8 | Volume Recovered (bbls) 13 |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: LO arrived and found a PW release coming from a hole in a 4" Victaulic tee on the main trunk line. A third-party contractor has been retained for remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2101333095 |
| District RP | |
| Facility ID | |
| Application ID | |

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

## Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell  Title: Environmental Manager

Signature: [signature]  Date: 1-13-21

email: Kyle_Littrell@xtoenergy.com  Telephone: 432-221-7331

**OCD Only**

Received by: Ramona Marcus  Date: 5/3/2021

| Location: | Ross Draw 25 North Battery | |
|---|---|---|
| Spill Date: | 1/7/2021 | |
| **Area 1** | | |
| Approximate Area = | 874.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 2.00 | inches |
| | | |
| Average Porosity Factor = | 0.15 | |
| | | |
| VOLUME OF LEAK | | |
| Total Produced Water = | 3.89 | bbls |
| **Area 2** | | |
| Approximate Area = | 4284.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 1.00 | inches |

| | | |
|---|---|---|
| Average Porosity Factor = | 0.03 | |

| VOLUME OF LEAK | | |
|---|---|---|
| Total Produced Water = | 14.91 | bbls |

| **TOTAL VOLUME OF LEAK** | | |
|---|---|---|
| **Total Produced Water =** | **18.80** | **bbls** |
| **TOTAL VOLUME RECOVERED** | | |
| **Total Produced Water =** | **13.00** | **bbls** |

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

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

CONDITIONS

Action 23625

## CONDITIONS OF APPROVAL

| Operator: | OGRID: | Action Number: | Action Type: |
|---|---|---|---|
| XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707 | 5380 | 23625 | C-141 |

| OCD Reviewer | Condition |
|---|---|
| rmarcus | None |

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2101333095 |
| 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? | 50-100 (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 wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

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Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2101333095 |
| 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: Kyle Littrell Title: Environmental Manager

Signature: Date: 06/03/2021

email: Kyle.Littrell@exxonmobil.com Telephone: (432)-221-7331

**OCD Only**

Received by: Date:

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nAPP2101333095 |
| District RP | |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ 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: Kyle Littrell Title: Environmental Manager

Signature: Date: 06/03/2021

email: Kyle.Littrell@exxonmobil.com Telephone: (432)-221-7331

**OCD Only**

Received by: Chad Hensley Date: 07/09/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Chad Hensley Date: 07/09/2021

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

June 2, 2021

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

**RE: Deferral Request**
**Ross Draw 25 N Battery**
**Incident Number nAPP2101333095**
**Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, excavation, and soil sampling activities at the Ross Draw 25 N Battery (Site) in Unit B, Section 25, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation for Incident Number nAPP2101333095 until the Site is reconstructed, and/or the well pad is abandoned.

**RELEASE BACKGROUND**

On January 7, 2021, a hole developed in a 4-inch Victaulic tee on the main trunk line, resulting in the release of approximately 18.8 barrels (bbls) of produced water onto the surface of the well pad, beneath and around active production equipment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 13 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 13, 2021. The release was assigned Incident Number nAPP2101333095.

**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 between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320154103562301, located approximately 0.9 miles north of the Site. The groundwater well was

most recently measured in January 1998 with a reported depth to groundwater of 66 feet bgs and a total depth of 200 feet bgs. Ground surface elevation at the groundwater well location is 2,974 feet above mean sea level (amsl), which is approximately 7 feet higher in elevation than the Site. There are three additional groundwater wells within a 2-mile radius of the Site that indicate regional depth to groundwater is between 50 feet and 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 640 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

**CLOSURE CRITERIA**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

**SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS**

On January 29, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release occurred in an area of active production equipment. WSP personnel collected five preliminary assessment soil samples (SS01 through SS05) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC)

procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS05 indicated that benzene, BTEX, and TPH concentrations were compliant with the Closure Criteria, however; chloride concentrations exceeded the Closure Criteria in all five preliminary soil samples. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

**EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS**

Between March 16, 2021 and April 7, 2021, WSP personnel were at the Site to oversee excavation and delineation activities as indicated by visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples.

Excavation Activities

Excavation activities were performed to remove the surficial staining observed adjacent to active production equipment in the release footprint and excavate the impacted soil in areas that were accessible with equipment around preliminary soil samples SS01, SS02, and SS05. Excavation activities were performed using a track-mounted backhoe, transport vehicle, and hydrovac. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. XTO safety policy restricts soil disturbing activities to a 2-foot radius of any on-site production equipment and pipelines. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the production equipment. This policy was enforced where impacted soil was identified within 2 feet of active production equipment near preliminary soil samples SS03 and SS04. Photographic documentation is included in Attachment 2.

Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples at 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 soil samples SW01 through SW09 were collected from the sidewalls of the excavations from depths ranging from the ground surface to 2 feet bgs. Composite soil samples FS01 through FS25 were collected from the floor of the excavations from a depth of 2 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation sidewall samples SW01 through SW07, and SW09 and floor samples FS01 through FS22, and FS25 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for

sidewall sample SW08 and floor samples FS23 and FS24 exceeded the Closure Criteria for chloride. Additional soil was removed from the area around floor samples FS23 and FS24 and sidewall sample SW08. Subsequent floor samples FS23A and FS24A and subsequent sidewall sample SW10 were compliant with the Closure Criteria. The final excavation extents and excavation soil sample locations are presented on Figure 3.

The combined excavations measured approximately 4,237 square feet in area and were completed to a maximum depth of approximately 3 feet bgs. A total of approximately 321 cubic yards of impacted soil were removed from the excavations. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

Delineation Activities

WSP personnel were at the Site on April 7, 2021 to oversee delineation activities to define the lateral and vertical extent of impacted soil left in place within 2 feet of active production equipment.

Three potholes and one borehole were advanced within and around the release extent to delineate the lateral and vertical extent of impacted soil left in place. Potholes PH01 through PH03 were advanced around the release extent via backhoe to depths ranging from 2 feet to 3 feet bgs. Borehole BH01 was advanced via hand auger to a depth of 3 feet bgs within the release extent at the location of preliminary soil sample SS03. Delineation soil samples were collected from the potholes and borehole from depths ranging from 1 foot to 3 feet bgs. Soil from the potholes and borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. The delineation soil samples were collected, handled, and analyzed as described above. Field screening results and observations for the potholes and borehole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil sample locations are depicted on Figure 4.

Laboratory analytical results for delineation soil sample BH01, collected at 1-foot bgs, indicated that chloride concentrations exceeded the Closure Criteria, subsequent borehole sample BH01A collected at 3 feet bgs was compliant. Laboratory analytical results for delineation samples PH01/PH01A through PH03/PH03A, collected from depths ranging from 1-foot to 3 feet bgs, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the delineation soil sample analytical results, the lateral and vertical extent of the impacted soil left in-place was successfully defined.

**DEFERRAL REQUEST**

A total of approximately 321 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place immediately adjacent to and beneath active production equipment. XTO safety policy restricts earth moving activities within 2 feet of active production

equipment. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the production equipment. This policy was enforced where chloride impacted soil was identified within 2 feet of active production equipment in preliminary samples SS03 and SS04 collected at 0.5 feet bgs and delineation sample BH01 collected at 1-foot bgs.

The impacted soil remaining in place is delineated vertically and laterally by excavation soil samples SW05 and SW10, collected from the sidewalls of the final excavation extents, and delineation soil samples BH01A and PH01/PH01A through PH03/PH03A. An estimated 140 cubic yards of impacted soil remains in place, assuming a maximum 3-feet depth based on the excavation and delineation soil samples listed above that were compliant with the Closure Criteria. The deferral area and delineation sample locations are identified on Figure 5.

XTO requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. 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 and the impacted soil remaining in place is limited to the area immediately adjacent to and beneath the active production equipment. XTO requests deferral of final remediation for Incident Number nAPP2101333095.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka
Assistant Consultant, Environmental Scientist

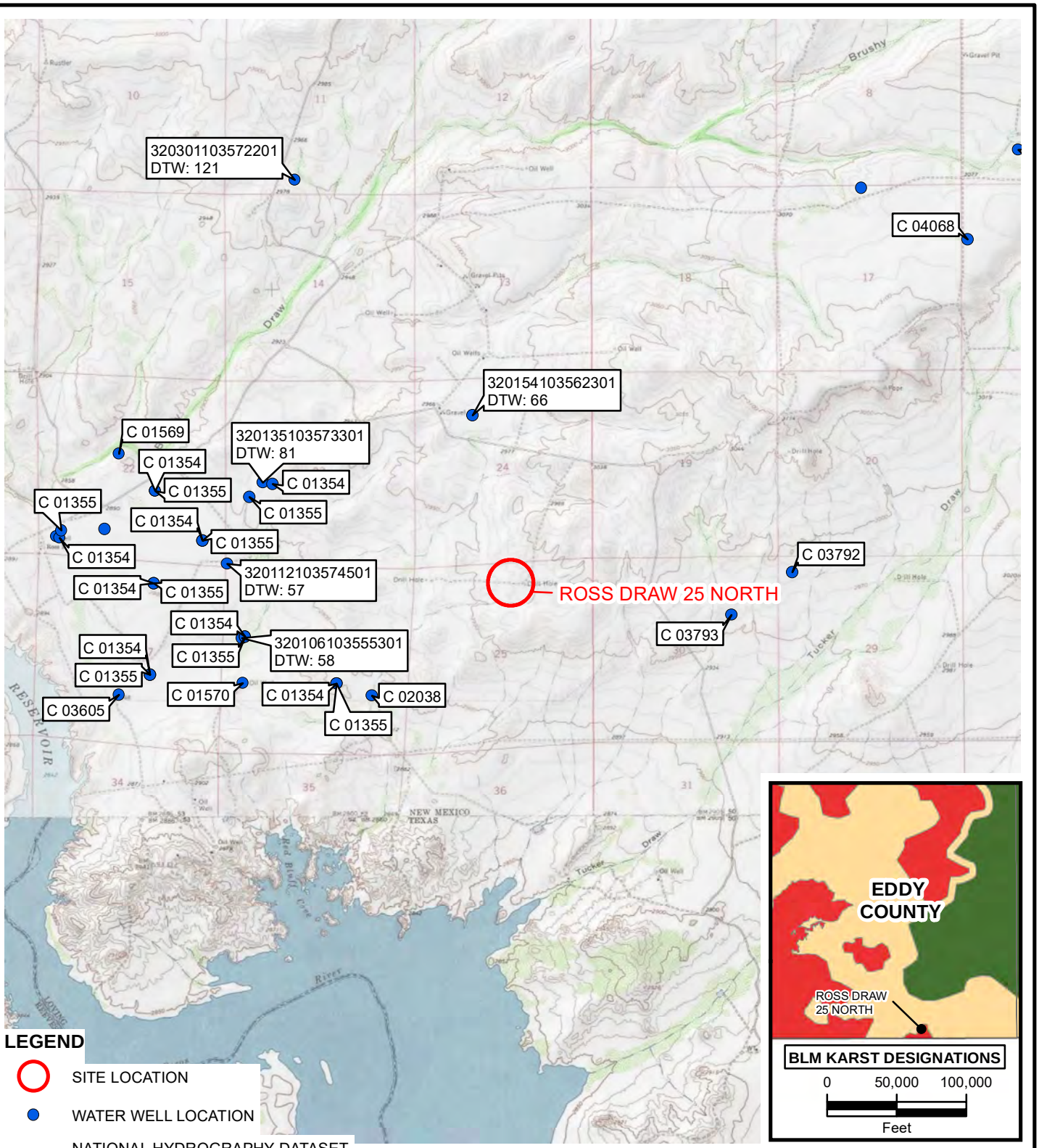
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations

FIGURES




**LEGEND**

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT
NOTE: INCIDENT NUMBER NRM2020924128

FIGURE 1
SITE LOCATION MAP
ROSS DRAW 25 NORTH
UNIT B SEC 25 T26S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012921016_ROSS DRAW 25 N BATTERY\012921016_FIG01_SL_RECEPTOR_2021.mxd


**LEGEND**

- RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT

IMAGE COURTESY OF ESRI

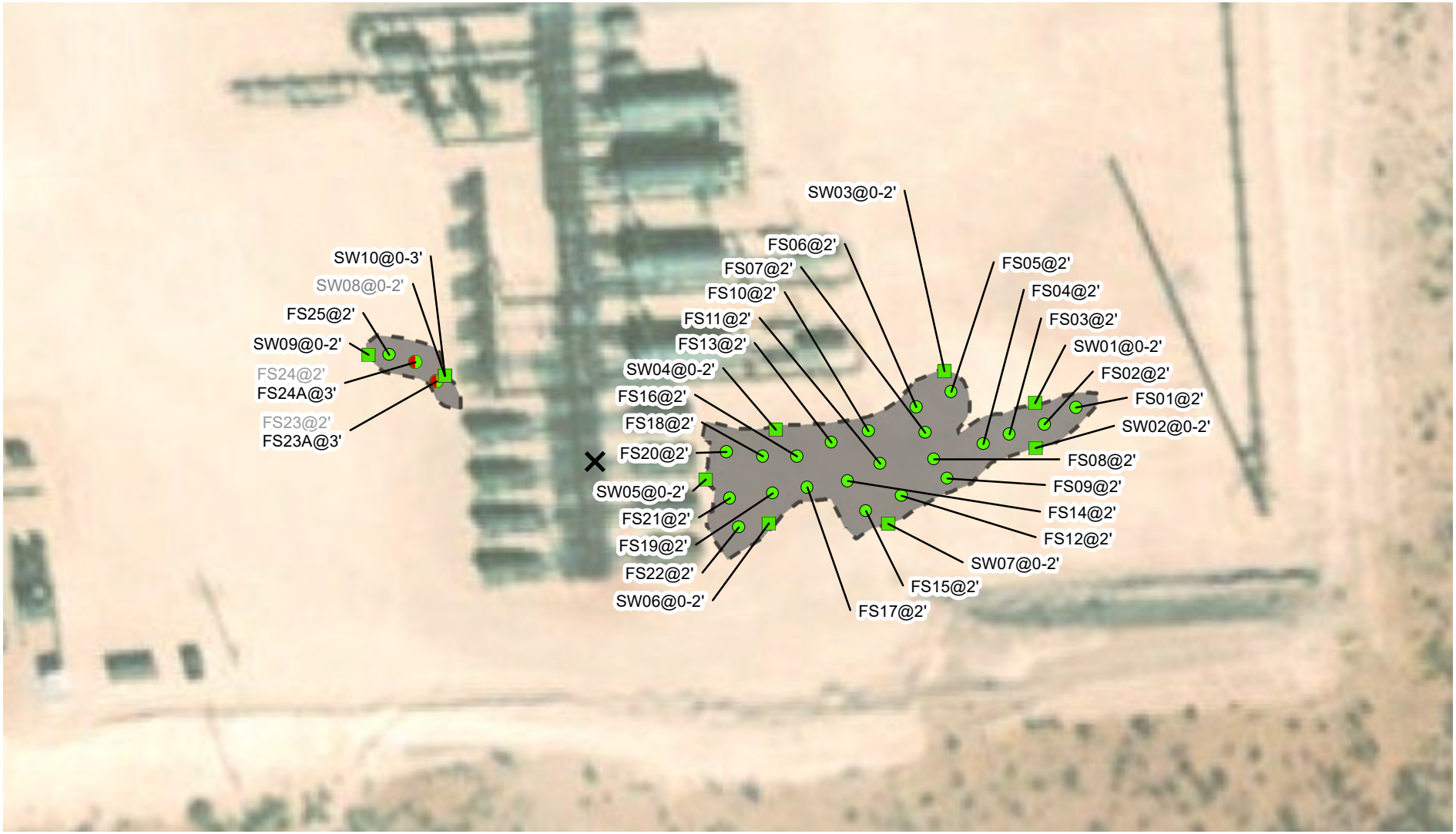
0 50 100
Feet

N

NOTE: INCIDENT NUMBER nAPP2101333095
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
ROSS DRAW 25 N BATTERY
UNIT B SEC 25 T26S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012921016_ROSS DRAW 25 N BATTERY\012921016_FIG02_PRELIMINARY_2021_1.mxd




**LEGEND**

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

NOTE: INCIDENT NUMBER nAPP2101333095
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
ROSS DRAW 25 N BATTERY
UNIT B SEC 25 T26S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012921016_ROSS DRAW 25 N BATTERY\012921016_FIG04_EXCAVATION_2021.mxd


IMAGE COURTESY OF ESRI

**LEGEND**

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT

NOTE: INCIDENT NUMBER nAPP2101333095
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

0 50 100
Feet

N

FIGURE 4
DELINEATION SOIL SAMPLE LOCATIONS
ROSS DRAW 25 N BATTERY
UNIT B SEC 25 T26S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012921016_ROSS DRAW 25 N BATTERY\012921016_FIG03_DELINEATION_2021.mxd


IMAGE COURTESY OF ESRI

**LEGEND**

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- DEFERRAL AREA
- EXCAVATION EXTENT

0 50 100
Feet

N

NOTE: INCIDENT NUMBER nAPP2101333095
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 5
DEFERRAL AREA
ROSS DRAW 25 N BATTERY
UNIT B SEC 25 T26S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012921016_ROSS DRAW 25 N BATTERY\012921016_FIG05_DEFERRAL_2021_1.mxd

TABLES

**Table 1**

**Soil Analytical Results**
**Ross Draw 25 N Battery**
**Incident Number nAPP2101333095**
**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 Closure Criteria (NMAC 19.15.29)** | | | **10** | **50** | NE | NE | NE | NE | **100** | **600** |
| **Surface Samples** | | | | | | | | | | |
| SS01 | 01/29/2021 | 0.5 | <0.00199 | <0.00199 | <50.0 | 71.3 | <50.0 | 71.3 | 71.3 | **5,210** |
| SS02 | 01/29/2021 | 0.5 | <0.00202 | <0.00202 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | **6,060** |
| SS03 | 01/29/2021 | 0.5 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | **5,640** |
| SS04 | 01/29/2021 | 0.5 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | **10,000** |
| SS05 | 01/29/2021 | 0.5 | <0.00202 | <0.00202 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | **10,500** |
| **Excavation Floor Samples** | | | | | | | | | | |
| FS01 | 03/17/2021 | 2 | <0.00199 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 10.7 |
| FS02 | 03/17/2021 | 2 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 19.4 |
| FS03 | 03/17/2021 | 2 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 51.3 |
| FS04 | 03/17/2021 | 2 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 133 |
| FS05 | 03/17/2021 | 2 | <0.00200 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 42.5 |
| FS06 | 03/17/2021 | 2 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 243 |
| FS07 | 03/17/2021 | 2 | <0.00200 | <0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 151 |
| FS08 | 03/17/2021 | 2 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 216 |
| FS09 | 03/17/2021 | 2 | <0.00199 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 211 |
| FS10 | 03/18/2021 | 2 | <0.00199 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 85.0 |
| FS11 | 03/18/2021 | 2 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 170 |
| FS12 | 03/18/2021 | 2 | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 220 |
| FS13 | 03/18/2021 | 2 | <0.00202 | <0.00202 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 299 |
| FS14 | 03/18/2021 | 2 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 170 |
| FS15 | 03/18/2021 | 2 | <0.00199 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 251 |

**Table 1**

**Soil Analytical Results**
**Ross Draw 25 N Battery**
**Incident Number nAPP2101333095**
**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 Closure Criteria (NMAC 19.15.29)** | | | **10** | **50** | NE | NE | NE | NE | **100** | **600** |
| FS16 | 03/18/2021 | 2 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 23.6 |
| FS17 | 03/18/2021 | 2 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 410 |
| FS18 | 03/18/2021 | 2 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 218 |
| FS19 | 03/18/2021 | 2 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 209 |
| FS20 | 03/18/2021 | 2 | <0.00200 | <0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 203 |
| FS21 | 03/17/2021 | 2 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 102 |
| FS22 | 03/17/2021 | 2 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 107 |
| FS23 | 03/22/2021 | 2 | <0.00200 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | **1,820** |
| FS23A | 04/07/2021 | 3 | <0.00202 | <0.00202 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 125 |
| FS24 | 03/22/2021 | 2 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | **2,250** |
| FS24A | 04/07/2021 | 3 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | 92.6 | 34.6 |
| FS25 | 03/22/2021 | 2 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 109 |
| **Excavation Sidewall Samples** | | | | | | | | | | |
| SW01 | 03/17/2021 | 0 - 2 | <0.00198 | <0.00198 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 35.5 |
| SW02 | 03/17/2021 | 0 - 2 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 30.9 |
| SW03 | 03/17/2021 | 0 - 2 | <0.00200 | <0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 81.8 |
| SW04 | 03/18/2021 | 0 - 2 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 69.0 |
| SW05 | 03/18/2021 | 0 - 2 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 243 |
| SW06 | 03/18/2021 | 0 - 2 | <0.00201 | <0.00201 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | 190 |
| SW07 | 03/18/2021 | 0 - 2 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 96.1 |
| SW08 | 03/22/2021 | 0 - 2 | <0.00202 | <0.00202 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | **678** |

**Table 1**

**Soil Analytical Results**
**Ross Draw 25 N Battery**
**Incident Number nAPP2101333095**
**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 Closure Criteria (NMAC 19.15.29)** | | | **10** | **50** | NE | NE | NE | NE | **100** | **600** |
| SW09 | 03/22/2021 | 0 - 2 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 368 |
| SW10 | 04/07/2021 | 0-3 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 59.3 |
| **Delineation Samples** | | | | | | | | | | |
| BH01 | 03/18/2021 | 1 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | **1,240** |
| BH01A | 03/18/2021 | 3 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 266 |
| PH01 | 04/07/2021 | 1 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 220 |
| PH01A | 04/07/2021 | 3 | <0.00202 | <0.00202 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 104 |
| PH02 | 04/07/2021 | 1 | <0.00200 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 242 |
| PH02A | 04/07/2021 | 2 | <0.00198 | <0.00198 | 54.5 | 54.5 | 54.5 | <50.0 | 54.5 | 136 |
| PH03 | 04/07/2021 | 1 | <0.00198 | <0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 142 |
| PH03A | 04/07/2021 | 2 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 120 |

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - motor oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard
Text impacted soil was removed

ATTACHMENT 1: REFERENCED WELL RECORD

# National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

## Search Results -- 1 sites found

**site_no list =**

- 320154103562301

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

---

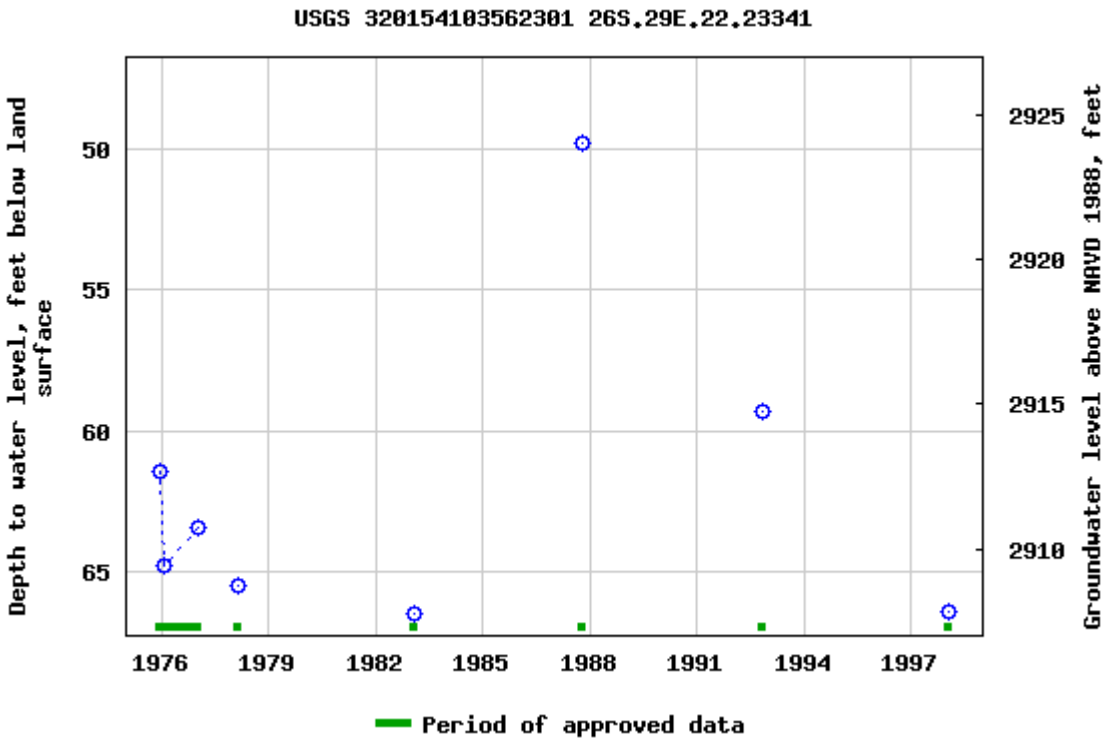
## USGS 320154103562301 26S.29E.22.23341

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°01'54", Longitude 103°56'23" NAD27
Land-surface elevation 2,974 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats**

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




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

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
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**Title: Groundwater for USA: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?**

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-04-08 14:01:42 EDT
0.73 0.58 nadww01

# National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

## Search Results -- 1 sites found

**site_no list =**

- 320106103555301

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

---

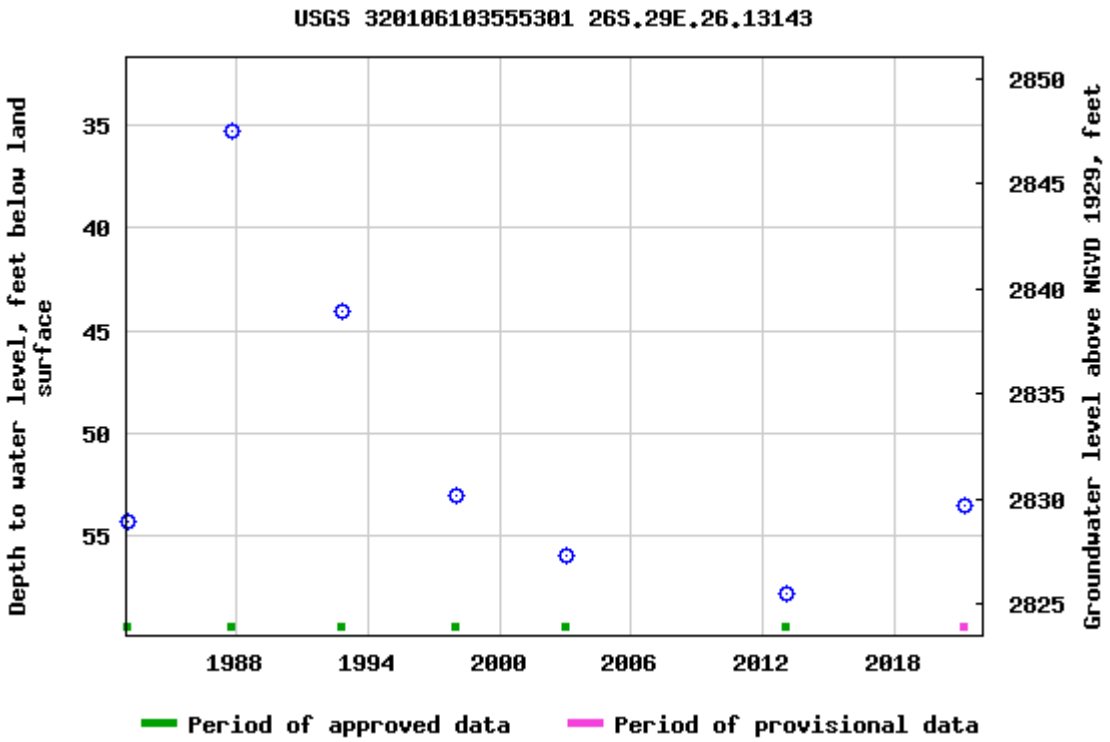
## USGS 320106103555301 26S.29E.26.13143

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83
Land-surface elevation 2,883.00 feet above NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats**

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




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

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



**Title: Groundwater for USA: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?**

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-04-08 14:12:52 EDT
0.74 0.67 nadww01

ATTACHMENT 2: PHOTOGRAPHIC LOG

| PHOTOGRAPHIC LOG | | |
|---|---|---|
| XTO Energy Inc. | Ross Draw 25 N Battery<br>Eddy County, New Mexico | nAPP2101333095 |

| Photo No. | Date |
|---|---|
| 1 | January 29, 2021 |

View of release area on western side of equipment facing east.

| Photo No. | Date |
|---|---|
| 2 | January 29, 2021 |

View of release area on eastern side of equipment facing west.

| PHOTOGRAPHIC LOG | | |
|---|---|---|
| XTO Energy Inc. | Ross Draw 25 N<br>Eddy County, New Mexico | nAPP2101333095 |

| Photo No. | Date |
|---|---|
| 3 | April 7, 2021 |

View of final western excavation extent facing south

| Photo No. | Date |
|---|---|
| 4 | March 18, 2021 |

View of final eastern excavation facing west.

| PHOTOGRAPHIC LOG | | |
|---|---|---|
| XTO Energy Inc. | Ross Draw 25 N<br>Eddy County, New Mexico | nAPP2101333095 |

| Photo No. | Date |
|---|---|
| 5 | March 22, 2021 |

View of western excavation facing east.

| Photo No. | Date |
|---|---|
| 6 | April 7, 2021 |

View of location of PH03, north of release area facing west.

| PHOTOGRAPHIC LOG | | |
|---|---|---|
| XTO Energy Inc. | Ross Draw 25 N<br>Eddy County, New Mexico | nAPP2101333095 |

| Photo No. | Date |
|---|---|
| 7 | April 7, 2021 |

View of location of PH01, south of production equipment facing north.

| Photo No. | Date |
|---|---|
| 8 | April 7, 2021 |

View of location of PH02, west of production equipment facing south.

ATTACHMENT 3: LITHOLOGIC/SAMPLING LOG

| WSP USA<br>508 West Stevens Street<br>Carlsbad, New Mexico 88220 | BH or PH Name: BH01 | Date: 3/18/2021 |
|---|---|---|
| | Site Name: | Ross Draw 25 N Battery |
| | RP or Incident Number: | NAPP2101333095 |
| | WSP Job Number: | TE012921016 |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By J. Hill | Method: H. Auger |
| Lat/Long: 32.018099, -103.936228 | Field Screening: Hatch Chloride strips, PID | Hole Diameter: 3" / Total Depth: 3' |
| Comments: | | |

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | |
| M | 1,340 | 1 | N | BH01 | 1 | 1 | SWSM | Well graded, (fine-med) sand w/ silt and gravel. No odor, no plasticity, no organics. Tan/Orange |
| M | 808 | 0.3 | N | | | 2 | SWSM | Well graded, (fine-med) sand w/ silt and gravel. No odor, no plasticity, no organics. Tan/Orange |
| M | 352 | 2 | N | BH01A | 3 | 3 | SWSM | Well graded, (fine-med) sand w/ silt and gravel. No odor, no plasticity, no organics. Tan/Orange |

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

| BH or PH Name: | Date: |
|---|---|
| PH01 | 4/7/2021 |
| Site Name: Ross Draw 25 North Battery | |
| RP or Incident Number: nAPP2101333095 | |
| WSP Job Number: TE012921016 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| Sampler: Elizabeth Naka | Method: Backhoe |
|---|---|
| Lat/Long: | Field Screening: Chloride, PID |
| Hole Diameter: | Total Depth: 3' |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | 313 | 0.0 | | PH01 | 1' | 1 | | sand/caliche, tan, no odor, dry |
| | <160 | 0.0 | | | 2' | 2 | | Same as Above (SAA) |
| | <160 | 0.0 | | PH01A | 3' | 3 | | Same as Above (SAA)<br>Total Depth; 3' |

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

| | |
|---|---|
| BH or PH Name: PH02 | Date: 4/7/2021 |
| Site Name: Ross Draw 25 North Battery | |
| RP or Incident Number: nAPP2101333095 | |
| WSP Job Number: TE012921016 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Sampler: Elizabeth Naka | Method: Backhoe | | |
| Lat/Long: | Field Screening: Chloride, PID | Hole Diameter: | Total Depth: 2' |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | 268 | 0.0 | | PH02 | 1' | 1 | | sand/caliche, tan, no odor, dry |
| | <160 | 0.0 | | PH02A | 2' | 2 | | Same as Above (SAA)<br>Total Depth; 2' |

0 3 4 5 6 7 8 9 10 11 12

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

| | |
|---|---|
| BH or PH Name: PH03 | Date: 4/7/2021 |
| Site Name: Ross Draw 25 North Battery | |
| RP or Incident Number: nAPP2101333095 | |
| WSP Job Number: TE012921016 | |
| Sampler: Elizabeth Naka | Method: Backhoe |
| Lat/Long: | Field Screening: Chloride, PID |
| Hole Diameter: | Total Depth: 2' |

**LITHOLOGIC / SOIL SAMPLING LOG**

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | 229 | 0.0 | | PH03 | 1' | 1 | | sand/caliche, tan, no odor, dry |
| | <160 | 0.0 | | PH03A | 2' | 2 | | Same as Above (SAA)<br>Total Depth; 2' |

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing Xenco

# Certificate of Analysis Summary 686612

## WSP USA, Dallas, TX

### Project Name: Ross Draw 25 N Battery

**Project Id:** TE012921016
**Contact:** Dan Moir
**Project Location:** Eddy County

**Date Received in Lab:** Fri 01.29.2021 13:40
**Report Date:** 02.04.2021 09:27
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 686612-001 | | 686612-002 | | 686612-003 | | 686612-004 | | 686612-005 | |
| | ***Field Id:*** | SS01 | | SS02 | | SS03 | | SS04 | | SS05 | |
| | ***Depth:*** | 0.5- ft | | 0.5- ft | | 0.5- ft | | 0.5- ft | | 0.5- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | 01.29.2021 11:00 | | 01.29.2021 11:05 | | 01.29.2021 11:10 | | 01.29.2021 11:15 | | 01.29.2021 11:20 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | 01.30.2021 17:28 | | 01.30.2021 17:28 | | 01.30.2021 17:28 | | 01.30.2021 17:28 | | 01.30.2021 17:28 | |
| | ***Analyzed:*** | 01.31.2021 05:07 | | 01.31.2021 05:30 | | 01.31.2021 05:52 | | 01.31.2021 06:15 | | 01.31.2021 06:37 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Toluene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00403 | 0.00403 | <0.00403 | 0.00403 | <0.00402 | 0.00402 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00199 | 0.00199 | <0.00202 | 0.00202 | <0.00202 | 0.00202 | <0.00201 | 0.00201 | <0.00202 | 0.00202 |
| **Chloride by EPA 300** | ***Extracted:*** | 01.30.2021 13:05 | | 01.30.2021 13:05 | | 01.30.2021 13:05 | | 01.30.2021 13:05 | | 01.30.2021 13:05 | |
| | ***Analyzed:*** | 01.30.2021 22:42 | | 01.30.2021 22:48 | | 01.30.2021 22:53 | | 01.30.2021 22:59 | | 01.30.2021 23:05 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 5210 | 199 | 6060 | 198 | 5640 | 198 | 10000 | 200 | 10500 | 200 |
| **TPH by SW8015 Mod SUB: T104704400-20-21** | ***Extracted:*** | 02.02.2021 17:00 | | 02.02.2021 17:00 | | 02.02.2021 17:00 | | 02.02.2021 17:00 | | 02.02.2021 17:00 | |
| | ***Analyzed:*** | 02.03.2021 01:52 | | 02.03.2021 02:13 | | 02.03.2021 02:57 | | 02.03.2021 03:19 | | 02.03.2021 03:40 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Diesel Range Organics (DRO) | | 71.3 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total GRO-DRO | | 71.3 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |
| Total TPH | | 71.3 | 50.0 | <49.8 | 49.8 | <49.9 | 49.9 | <49.9 | 49.9 | <50.0 | 50.0 |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Analytical Report 686612

## for

## WSP USA

**Project Manager: Dan Moir**

**Ross Draw 25 N Battery**

**TE012921016**

**02.04.2021**

Collected By: Client

**1089 N Canal Street**
**Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.04.2021

Project Manager: **Dan Moir**
**WSP USA**
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **686612**
**Ross Draw 25 N Battery**
Project Address: Eddy County

**Dan Moir**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686612. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686612 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS01 | S | 01.29.2021 11:00 | 0.5 ft | 686612-001 |
| SS02 | S | 01.29.2021 11:05 | 0.5 ft | 686612-002 |
| SS03 | S | 01.29.2021 11:10 | 0.5 ft | 686612-003 |
| SS04 | S | 01.29.2021 11:15 | 0.5 ft | 686612-004 |
| SS05 | S | 01.29.2021 11:20 | 0.5 ft | 686612-005 |

# CASE NARRATIVE

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***Client Name: WSP USA***

***Project Name: Ross Draw 25 N Battery***

Project ID: *TE012921016*
Work Order Number(s): *686612*

Report Date: *02.04.2021*
Date Received: *01.29.2021*

**Sample receipt non conformances and comments:**

None

**Sample receipt non conformances and comments per sample:**

None

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS01** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-001 | Date Collected: | 01.29.2021 11:00 | Sample Depth: | 0.5 ft |

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB

Analyst: MAB — Date Prep: 01.30.2021 13:05 — % Moisture:

Seq Number: 3149503 — Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **5210** | 199 | mg/kg | 01.30.2021 22:42 | | 20 |

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DVM

Analyst: ARM — Date Prep: 02.02.2021 17:00 — % Moisture:

Seq Number: 3149866 — Basis: Wet Weight

SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 02.03.2021 01:52 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **71.3** | 50.0 | mg/kg | 02.03.2021 01:52 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 02.03.2021 01:52 | U | 1 |
| **Total GRO-DRO** | PHC628 | **71.3** | 50.0 | mg/kg | 02.03.2021 01:52 | | 1 |
| **Total TPH** | PHC635 | **71.3** | 50.0 | mg/kg | 02.03.2021 01:52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-130 | 02.03.2021 01:52 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-130 | 02.03.2021 01:52 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS01** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-001 | Date Collected: | 01.29.2021 11:00 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | | |
| Analyst: | MAB | Date Prep: | 01.30.2021 17:28 | % Moisture: | |
| Seq Number: | 3149554 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 01.31.2021 05:07 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 01.31.2021 05:07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 01.31.2021 05:07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 01.31.2021 05:07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 01.31.2021 05:07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 01.31.2021 05:07 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 01.31.2021 05:07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 01.31.2021 05:07 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 01.31.2021 05:07 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

Sample Id: **SS02** Matrix: Soil Date Received:01.29.2021 13:40
Lab Sample Id: 686612-002 Date Collected: 01.29.2021 11:05 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 13:05 % Moisture:
Seq Number: 3149503 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **6060** | 198 | mg/kg | 01.30.2021 22:48 | | 20 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.02.2021 17:00 % Moisture:
Seq Number: 3149866 Basis: Wet Weight
SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 02.03.2021 02:13 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 02.03.2021 02:13 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 02.03.2021 02:13 | U | 1 |
| Total GRO-DRO | PHC628 | <49.8 | 49.8 | mg/kg | 02.03.2021 02:13 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 02.03.2021 02:13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 76 | % | 70-130 | 02.03.2021 02:13 | |
| o-Terphenyl | 84-15-1 | 83 | % | 70-130 | 02.03.2021 02:13 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS02** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-002 | Date Collected: | 01.29.2021 11:05 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | | |
| Analyst: | MAB | Date Prep: | 01.30.2021 17:28 | % Moisture: | |
| Seq Number: | 3149554 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:30 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 01.31.2021 05:30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:30 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 01.31.2021 05:30 | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 01.31.2021 05:30 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

Sample Id: **SS03** Matrix: Soil Date Received:01.29.2021 13:40
Lab Sample Id: 686612-003 Date Collected: 01.29.2021 11:10 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 13:05 % Moisture:
Seq Number: 3149503 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **5640** | 198 | mg/kg | 01.30.2021 22:53 | | 20 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.02.2021 17:00 % Moisture:
Seq Number: 3149866 Basis: Wet Weight
SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.03.2021 02:57 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 02.03.2021 02:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 02.03.2021 02:57 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | mg/kg | 02.03.2021 02:57 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 02.03.2021 02:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-130 | 02.03.2021 02:57 | |
| o-Terphenyl | 84-15-1 | 128 | % | 70-130 | 02.03.2021 02:57 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS03** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-003 | Date Collected: | 01.29.2021 11:10 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | | |
| Analyst: | MAB | Date Prep: | 01.30.2021 17:28 | % Moisture: | |
| Seq Number: | 3149554 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:52 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:52 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:52 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 01.31.2021 05:52 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:52 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:52 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 01.31.2021 05:52 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 01.31.2021 05:52 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 01.31.2021 05:52 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

Sample Id: **SS04** Matrix: Soil Date Received:01.29.2021 13:40
Lab Sample Id: 686612-004 Date Collected: 01.29.2021 11:15 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MAB
Analyst: MAB Date Prep: 01.30.2021 13:05 % Moisture:
Seq Number: 3149503 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10000** | 200 | mg/kg | 01.30.2021 22:59 | | 20 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM
Analyst: ARM Date Prep: 02.02.2021 17:00 % Moisture:
Seq Number: 3149866 Basis: Wet Weight
SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.03.2021 03:19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 02.03.2021 03:19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 02.03.2021 03:19 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | mg/kg | 02.03.2021 03:19 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 02.03.2021 03:19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-130 | 02.03.2021 03:19 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-130 | 02.03.2021 03:19 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS04** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-004 | Date Collected: | 01.29.2021 11:15 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | | |
| Analyst: | MAB | Date Prep: | 01.30.2021 17:28 | % Moisture: | |
| Seq Number: | 3149554 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 01.31.2021 06:15 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 01.31.2021 06:15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 01.31.2021 06:15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 01.31.2021 06:15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 01.31.2021 06:15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 01.31.2021 06:15 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 01.31.2021 06:15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 107 | % | 70-130 | 01.31.2021 06:15 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 01.31.2021 06:15 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS05** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-005 | Date Collected: | 01.29.2021 11:20 | Sample Depth: | 0.5 ft |

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB

Analyst: MAB — Date Prep: 01.30.2021 13:05 — % Moisture:

Seq Number: 3149503 — Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **10500** | 200 | mg/kg | 01.30.2021 23:05 | | 20 |

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: DVM

Analyst: ARM — Date Prep: 02.02.2021 17:00 — % Moisture:

Seq Number: 3149866 — Basis: Wet Weight

SUB: T104704400-20-21

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 02.03.2021 03:40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 02.03.2021 03:40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 02.03.2021 03:40 | U | 1 |
| Total GRO-DRO | PHC628 | <50.0 | 50.0 | mg/kg | 02.03.2021 03:40 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 02.03.2021 03:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 85 | % | 70-130 | 02.03.2021 03:40 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-130 | 02.03.2021 03:40 | |

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# Certificate of Analytical Results 686612

## WSP USA, Dallas, TX

Ross Draw 25 N Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS05** | Matrix: | Soil | Date Received: | 01.29.2021 13:40 |
| Lab Sample Id: | 686612-005 | Date Collected: | 01.29.2021 11:20 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5035A |
| Tech: | MAB | | | | |
| Analyst: | MAB | Date Prep: | 01.30.2021 17:28 | % Moisture: | |
| Seq Number: | 3149554 | | | Basis: | Wet Weight |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 06:37 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 06:37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 06:37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 01.31.2021 06:37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 06:37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 01.31.2021 06:37 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 01.31.2021 06:37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 01.31.2021 06:37 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 01.31.2021 06:37 | |

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# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit. **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

**PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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# QC Summary 686612

## WSP USA

Ross Draw 25 N Battery

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149503 — Matrix: Solid — Date Prep: 01.30.2021
MB Sample Id: 7720397-1-BLK — LCS Sample Id: 7720397-1-BKS — LCSD Sample Id: 7720397-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | 200 | 205 | 103 | 202 | 101 | 90-110 | 1 | 20 | mg/kg | 01.30.2021 20:31 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149503 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686527-010 — MS Sample Id: 686527-010 S — MSD Sample Id: 686527-010 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 220 | 199 | 416 | 98 | 402 | 91 | 90-110 | 3 | 20 | mg/kg | 01.30.2021 20:48 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3149503 — Matrix: Soil — Date Prep: 01.30.2021
Parent Sample Id: 686532-006 — MS Sample Id: 686532-006 S — MSD Sample Id: 686532-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 206 | 201 | 393 | 93 | 409 | 100 | 90-110 | 4 | 20 | mg/kg | 01.30.2021 22:08 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149866 — Matrix: Solid — Date Prep: 02.02.2021
MB Sample Id: 7720664-1-BLK — LCS Sample Id: 7720664-1-BKS — LCSD Sample Id: 7720664-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 971 | 97 | 991 | 99 | 70-130 | 2 | 20 | mg/kg | 02.02.2021 21:36 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 862 | 86 | 889 | 89 | 70-130 | 3 | 20 | mg/kg | 02.02.2021 21:36 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 94 | | 90 | | 93 | | 70-130 | % | 02.02.2021 21:36 |
| o-Terphenyl | 109 | | 89 | | 96 | | 70-130 | % | 02.02.2021 21:36 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3149866 — Matrix: Solid — Date Prep: 02.02.2021
MB Sample Id: 7720664-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 02.02.2021 21:15 | |

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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# QC Summary 686612

## WSP USA

Ross Draw 25 N Battery

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3149866 Matrix: Soil Date Prep: 02.02.2021
Parent Sample Id: 686532-001 MS Sample Id: 686532-001 S MSD Sample Id: 686532-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.8 | 996 | 1000 | 100 | 1000 | 100 | 70-130 | 0 | 20 | mg/kg | 02.02.2021 22:39 | |
| Diesel Range Organics (DRO) | <49.8 | 996 | 917 | 92 | 906 | 91 | 70-130 | 1 | 20 | mg/kg | 02.02.2021 22:39 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 87 | | 87 | | 70-130 | % | 02.02.2021 22:39 |
| o-Terphenyl | 90 | | 89 | | 70-130 | % | 02.02.2021 22:39 |

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149554 Matrix: Solid Date Prep: 01.30.2021
MB Sample Id: 7720405-1-BLK LCS Sample Id: 7720405-1-BKS LCSD Sample Id: 7720405-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0957 | 96 | 0.0963 | 96 | 70-130 | 1 | 35 | mg/kg | 01.30.2021 20:50 | |
| Toluene | <0.00200 | 0.100 | 0.0930 | 93 | 0.0976 | 98 | 70-130 | 5 | 35 | mg/kg | 01.30.2021 20:50 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0953 | 95 | 0.0962 | 96 | 71-129 | 1 | 35 | mg/kg | 01.30.2021 20:50 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.190 | 95 | 0.194 | 97 | 70-135 | 2 | 35 | mg/kg | 01.30.2021 20:50 | |
| o-Xylene | <0.00200 | 0.100 | 0.0949 | 95 | 0.0987 | 99 | 71-133 | 4 | 35 | mg/kg | 01.30.2021 20:50 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 97 | | 99 | | 70-130 | % | 01.30.2021 20:50 |
| 4-Bromofluorobenzene | 102 | | 100 | | 104 | | 70-130 | % | 01.30.2021 20:50 |

**Analytical Method:** **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3149554 Matrix: Soil Date Prep: 01.30.2021
Parent Sample Id: 686581-037 MS Sample Id: 686581-037 S MSD Sample Id: 686581-037 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | 0.101 | 0.0889 | 88 | 0.0861 | 86 | 70-130 | 3 | 35 | mg/kg | 01.30.2021 21:35 | |
| Toluene | <0.00202 | 0.101 | 0.0838 | 83 | 0.0781 | 78 | 70-130 | 7 | 35 | mg/kg | 01.30.2021 21:35 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0835 | 83 | 0.0798 | 80 | 71-129 | 5 | 35 | mg/kg | 01.30.2021 21:35 | |
| m,p-Xylenes | <0.00404 | 0.202 | 0.164 | 81 | 0.160 | 80 | 70-135 | 2 | 35 | mg/kg | 01.30.2021 21:35 | |
| o-Xylene | <0.00202 | 0.101 | 0.0861 | 85 | 0.0832 | 83 | 71-133 | 3 | 35 | mg/kg | 01.30.2021 21:35 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 99 | | 96 | | 70-130 | % | 01.30.2021 21:35 |
| 4-Bromofluorobenzene | 104 | | 99 | | 70-130 | % | 01.30.2021 21:35 |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Cost Center: 1056651001



# Chain of Custody

Work Order No: 1E866612

XENCO LABORATORIES

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)

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| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA Inc, Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 West Mermond |
| City, State ZIP: | Midland, Tx 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 Email: | | elizabeth.naka@wsp.com, dan.moir@wsp.com |

**Work Order Comments**

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

| | | | |
|---|---|---|---|
| Project Name: | Ross Draw 25 N Battery | Turn Around | |
| Project Number: | TE012921016 | Routine | X |
| P.O. Number: | Eddy County | Rush: | |
| Sampler's Name: | Elizabeth Naka | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | (Yes) No | Wet Ice: | (Yes) No |
| Temperature (°C): | 3.6 / 2.4 | Thermometer ID | TN1007 |
| Received Intact: | (Yes) No | | |
| Cooler Custody Seals: | Yes (No) N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes (No) N/A | Total Containers: | 5 |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| SS01 | S | 1/29/21 | 1100 | 0.5' | 1 | X | X | X | discrete |
| SS02 | | | 1105 | | | | | | |
| SS03 | | | 1110 | | | | | | |
| SS04 | | | 1115 | | | | | | |
| SS05 | | | 1120 | | | | | | |

ANALYSIS REQUEST

Work Order Notes

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

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

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 1/29/21 13:40 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 051418 Rev. 2018.1

# Inter-Office Shipment

**IOS Number : 77336**

| | | | | | |
|---|---|---|---|---|---|
| Date/Time: | 01.29.2021 | Created by: | Cloe Clifton | Please send report to: | Jessica Kramer |
| Lab# From: | **Carlsbad** | Delivery Priority: | | Address: | 1089 N Canal Street |
| Lab# To: | **Midland** | Air Bill No.: | | E-Mail: | jessica.kramer@eurofinset.com |

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|---|---|---|---|---|---|---|---|---|---|---|
| 686612-001 | S | SS01 | 01.29.2021 11:00 | SW8015MOD_NM | TPH by SW8015 Mod | 02.04.2021 | 02.12.2021 | JKR | GRO-DRO PHCC10C28 | |
| 686612-002 | S | SS02 | 01.29.2021 11:05 | SW8015MOD_NM | TPH by SW8015 Mod | 02.04.2021 | 02.12.2021 | JKR | GRO-DRO PHCC10C28 | |
| 686612-003 | S | SS03 | 01.29.2021 11:10 | SW8015MOD_NM | TPH by SW8015 Mod | 02.04.2021 | 02.12.2021 | JKR | GRO-DRO PHCC10C28 | |
| 686612-004 | S | SS04 | 01.29.2021 11:15 | SW8015MOD_NM | TPH by SW8015 Mod | 02.04.2021 | 02.12.2021 | JKR | GRO-DRO PHCC10C28 | |
| 686612-005 | S | SS05 | 01.29.2021 11:20 | SW8015MOD_NM | TPH by SW8015 Mod | 02.04.2021 | 02.12.2021 | JKR | GRO-DRO PHCC10C28 | |

**Inter Office Shipment or Sample Comments:**

Relinquished By: Cloe Clifton

Cloe Clifton

Date Relinquished: 01.29.2021

Received By: Jessica Kramer

Jessica Kramer

Date Received: 02.01.2021

Cooler Temperature: 2.5

# Eurofins Xenco, LLC

## Inter Office Report- Sample Receipt Checklist

**Sent To:** Midland

**IOS #:** 77336

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**
**Temperature Measuring device used :**

**Sent By:** Cloe Clifton **Date Sent:** 01.29.2021 02.46 PM

**Received By:** Jessica Kramer **Date Received:** 02.01.2021 10.00 AM

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 2.5 | |
| #2 *Shipping container in good condition? | **Yes** | |
| #3 *Samples received with appropriate temperature? | **Yes** | |
| #4 *Custody Seals intact on shipping container/ cooler? | **Yes** | |
| #5 *Custody Seals Signed and dated for Containers/coolers | **Yes** | |
| #6 *IOS present? | **Yes** | |
| #7 Any missing/extra samples? | **No** | |
| #8 IOS agrees with sample label(s)/matrix? | **Yes** | |
| #9 Sample matrix/ properties agree with IOS? | **Yes** | |
| #10 Samples in proper container/ bottle? | **Yes** | |
| #11 Samples properly preserved? | **Yes** | |
| #12 Sample container(s) intact? | **Yes** | |
| #13 Sufficient sample amount for indicated test(s)? | **Yes** | |
| #14 All samples received within hold time? | **Yes** | |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

**NonConformance:**

**Corrective Action Taken:**

**Nonconformance Documentation**

**Contact:** _____ **Contacted by :** _____ **Date:** _____

**Checklist reviewed by:** Jessica Kramer Date: 02.01.2021

Jessica Kramer

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 890-378-1
Laboratory Sample Delivery Group: TE012921016
Client Project/Site: Ross Draw 25 N Battery

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

Attn: Dan Moir

JKramer

*Authorized for release by:*
*3/30/2021 7:34:06 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.*

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Laboratory Job ID: 890-378-1
SDG: TE012921016

# Table of Contents

# Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Qualifiers

### GC VOA

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

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Job ID: 890-378-1

**Laboratory: Eurofins Xenco, Carlsbad**

**Narrative**

**Job Narrative**
**890-378-1**

**Receipt**
The samples were received on 3/17/2021 4:56 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 0.8°C

**Receipt Exceptions**
The following samples analyzed for method BTEX 8021 received and analyzed from an unpreserved bulk soil jar: SW01 (890-378-1), SW02 (890-378-2), FS01 (890-378-3), FS02 (890-378-4), FS03 (890-378-5), FS04 (890-378-6), SW03 (890-378-7), FS05 (890-378-8), FS06 (890-378-9), FS07 (890-378-10), FS08 (890-378-11) and FS09 (890-378-12).

**GC Semi VOA**
Method 8015MOD_NM: The laboratory control sample (LCS) and the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-834 and analytical batch 880-847 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. These analytes were biased high in the LCS, MS/MSD and were not detected in the associated samples; therefore, the data have been reported.

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: SW01 Lab Sample ID: 890-378-1

**Date Collected: 03/17/21 09:01** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 03:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 03:17* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 07:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 07:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 07:39 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 07:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *71* | | *70 - 130* | *03/23/21 16:46* | *03/24/21 07:39* | *1* |
| *o-Terphenyl* | *74* | | *70 - 130* | *03/23/21 16:46* | *03/24/21 07:39* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **35.5** | | 5.03 | | mg/Kg | | | 03/21/21 17:20 | 1 |

## Client Sample ID: SW02 Lab Sample ID: 890-378-2

**Date Collected: 03/17/21 09:05** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 03:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *113* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 03:38* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/30/21 03:15 | 1 |

Eurofins Xenco, Carlsbad

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: SW02 Lab Sample ID: 890-378-2

**Date Collected: 03/17/21 09:05** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/30/21 03:15 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/30/21 03:15 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/30/21 03:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* | *03/29/21 14:26* | *03/30/21 03:15* | *1* |
| *o-Terphenyl* | *119* | | *70 - 130* | *03/29/21 14:26* | *03/30/21 03:15* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **30.9** | | 5.02 | | mg/Kg | | | 03/21/21 17:25 | 1 |

## Client Sample ID: FS01 Lab Sample ID: 890-378-3

**Date Collected: 03/17/21 09:51** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 03:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 03:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 03:59* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 08:22 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 08:22 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 08:22 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/23/21 16:46 | 03/24/21 08:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *72* | | *70 - 130* | *03/23/21 16:46* | *03/24/21 08:22* | *1* |
| *o-Terphenyl* | *75* | | *70 - 130* | *03/23/21 16:46* | *03/24/21 08:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **10.7** | | 5.01 | | mg/Kg | | | 03/21/21 17:30 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS02 Lab Sample ID: 890-378-4

**Date Collected: 03/17/21 09:59** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *90* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 04:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *105* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 04:20* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 18:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 18:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 18:42 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 18:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *92* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 18:42* | *1* |
| *o-Terphenyl* | *92* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 18:42* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **19.4** | | 4.99 | | mg/Kg | | | 03/21/21 17:36 | 1 |

## Client Sample ID: FS03 Lab Sample ID: 890-378-5

**Date Collected: 03/17/21 10:04** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 04:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 04:41* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 04:41* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:02 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS03 Lab Sample ID: 890-378-5

**Date Collected: 03/17/21 10:04** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:02 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:02 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *93* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 19:02* | *1* |
| *o-Terphenyl* | *93* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 19:02* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **51.3** | | 4.98 | | mg/Kg | | | 03/21/21 17:41 | 1 |

## Client Sample ID: FS04 Lab Sample ID: 890-378-6

**Date Collected: 03/17/21 10:09** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 05:01* | *1* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 05:01* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:23 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:23 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:23 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 19:23* | *1* |
| *o-Terphenyl* | *95* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 19:23* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **133** | | 5.01 | | mg/Kg | | | 03/21/21 17:56 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: SW03 Lab Sample ID: 890-378-7

**Date Collected: 03/17/21 10:38** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:34 | 03/27/21 05:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 05:22* | *1* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* | *03/26/21 14:34* | *03/27/21 05:22* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *+ | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:44 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:44 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 19:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 19:44* | *1* |
| *o-Terphenyl* | *94* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 19:44* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **81.8** | | 4.98 | | mg/Kg | | | 03/21/21 18:02 | 1 |

## Client Sample ID: FS05 Lab Sample ID: 890-378-8

**Date Collected: 03/17/21 10:43** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *123* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 01:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 01:26* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U *+ | 50.1 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:05 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS05 Lab Sample ID: 890-378-8

**Date Collected: 03/17/21 10:43** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:05 | 1 |
| OII Range Organics (Over C28-C36) | <50.1 | U | 50.1 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:05 | 1 |
| Total TPH | <50.1 | U | 50.1 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *93* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 20:05* | *1* |
| *o-Terphenyl* | *93* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 20:05* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **42.5** | | 4.99 | | mg/Kg | | | 03/21/21 18:17 | 1 |

## Client Sample ID: FS06 Lab Sample ID: 890-378-9

**Date Collected: 03/17/21 10:48** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 01:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 01:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 01:47* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:26 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:26 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:26 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *93* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 20:26* | *1* |
| *o-Terphenyl* | *95* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 20:26* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **243** | | 5.00 | | mg/Kg | | | 03/21/21 18:22 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS07 Lab Sample ID: 890-378-10

**Date Collected: 03/17/21 10:52** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 02:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 02:07* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *+ | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:47 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:47 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 20:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *105* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 20:47* | *1* |
| *o-Terphenyl* | *104* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 20:47* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **151** | | 5.01 | | mg/Kg | | | 03/21/21 18:28 | 1 |

## Client Sample ID: FS08 Lab Sample ID: 890-378-11

**Date Collected: 03/17/21 10:57** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 02:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 02:27* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:19 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS08 Lab Sample ID: 890-378-11

**Date Collected: 03/17/21 10:57** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:19 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:19 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *103* | | *70 - 130* | *03/24/21 09:46* | *03/25/21 18:19* | *1* |
| *o-Terphenyl* | *107* | | *70 - 130* | *03/24/21 09:46* | *03/25/21 18:19* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **216** | | 5.00 | | mg/Kg | | | 03/21/21 18:33 | 1 |

## Client Sample ID: FS09 Lab Sample ID: 890-378-12

**Date Collected: 03/17/21 11:03** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/26/21 14:55 | 03/27/21 02:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 02:48* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *03/26/21 14:55* | *03/27/21 02:48* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:40 | 1 |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:40 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *03/24/21 09:46* | *03/25/21 18:40* | *1* |
| *o-Terphenyl* | *104* | | *70 - 130* | *03/24/21 09:46* | *03/25/21 18:40* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **211** | | 5.02 | | mg/Kg | | | 03/21/21 18:38 | 1 |

# Surrogate Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## 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) |
| 890-378-1 | SW01 | 96 | 104 |
| 890-378-2 | SW02 | 105 | 113 |
| 890-378-3 | FS01 | 97 | 110 |
| 890-378-4 | FS02 | 90 | 105 |
| 890-378-5 | FS03 | 99 | 108 |
| 890-378-6 | FS04 | 100 | 108 |
| 890-378-7 | SW03 | 98 | 104 |
| 890-378-8 | FS05 | 123 | 101 |
| 890-378-8 MS | FS05 | 125 | 110 |
| 890-378-8 MSD | FS05 | 124 | 110 |
| 890-378-9 | FS06 | 112 | 103 |
| 890-378-10 | FS07 | 121 | 103 |
| 890-378-11 | FS08 | 114 | 101 |
| 890-378-12 | FS09 | 121 | 103 |
| LCS 880-914/1-A | Lab Control Sample | 101 | 103 |
| LCS 880-936/3 | Lab Control Sample | 83 | 101 |
| LCSD 880-936/4 | Lab Control Sample Dup | 89 | 108 |
| MB 880-883/5-A | Method Blank | 110 | 102 |
| MB 880-936/9 | Method Blank | 108 | 95 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | BFB1 | DFBZ1 |
| Lab Sample ID | Client Sample ID | | |
| LCSD 880-914/2-A | Lab Control Sample Dup | | |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | 1CO1 | OTPH1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-378-1 | SW01 | 71 | 74 |
| 890-378-2 | SW02 | 112 | 119 |
| 890-378-3 | FS01 | 72 | 75 |
| 890-378-4 | FS02 | 92 | 92 |
| 890-378-5 | FS03 | 93 | 93 |
| 890-378-6 | FS04 | 94 | 95 |
| 890-378-7 | SW03 | 94 | 94 |
| 890-378-8 | FS05 | 93 | 93 |
| 890-378-9 | FS06 | 93 | 95 |

# Surrogate Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## 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) | | | | | | | | | | |
| 890-378-10 | FS07 | 105 | 104 | | | | | | | | | | |
| 890-378-11 | FS08 | 103 | 107 | | | | | | | | | | |
| 890-378-12 | FS09 | 102 | 104 | | | | | | | | | | |
| LCS 880-1013/2-A | Lab Control Sample | 112 | 110 | | | | | | | | | | |
| LCS 880-772/2-A | Lab Control Sample | 99 | 91 | | | | | | | | | | |
| LCS 880-799/2-A | Lab Control Sample | 115 | 108 | | | | | | | | | | |
| LCS 880-834/2-A | Lab Control Sample | 108 | 102 | | | | | | | | | | |
| LCSD 880-1013/3-A | Lab Control Sample Dup | 109 | 105 | | | | | | | | | | |
| LCSD 880-772/3-A | Lab Control Sample Dup | 101 | 92 | | | | | | | | | | |
| LCSD 880-799/3-A | Lab Control Sample Dup | 109 | 102 | | | | | | | | | | |
| LCSD 880-834/3-A | Lab Control Sample Dup | 103 | 95 | | | | | | | | | | |
| MB 880-1013/1-A | Method Blank | 62 S1- | 67 S1- | | | | | | | | | | |
| MB 880-772/1-A | Method Blank | 91 | 93 | | | | | | | | | | |
| MB 880-799/1-A | Method Blank | 90 | 97 | | | | | | | | | | |
| MB 880-834/1-A | Method Blank | 102 | 107 | | | | | | | | | | |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

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

**Lab Sample ID: MB 880-883/5-A**
**Matrix: Solid**
**Analysis Batch: 903**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 883**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/25/21 17:54 | 03/27/21 01:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *03/25/21 17:54* | *03/27/21 01:05* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *03/25/21 17:54* | *03/27/21 01:05* | *1* |

**Lab Sample ID: LCS 880-914/1-A**
**Matrix: Solid**
**Analysis Batch: 903**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 914**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09901 | | mg/Kg | | 99 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09387 | | mg/Kg | | 94 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.09781 | | mg/Kg | | 98 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.1946 | | mg/Kg | | 97 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.09770 | | mg/Kg | | 98 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* |

**Lab Sample ID: LCSD 880-914/2-A**
**Matrix: Solid**
**Analysis Batch: 903**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 914**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1253 | | mg/Kg | | | | | |
| Toluene | | | 0.100 | 0.1166 | | mg/Kg | | | | | |
| Ethylbenzene | | | 0.100 | 0.1241 | | mg/Kg | | | | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2580 | | mg/Kg | | | | | |
| o-Xylene | | | 0.100 | 0.1429 | | mg/Kg | | | | | |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | | | |
| *1,4-Difluorobenzene (Surr)* | | | |

**Lab Sample ID: 890-378-8 MS**
**Matrix: Solid**
**Analysis Batch: 903**

**Client Sample ID: FS05**
**Prep Type: Total/NA**
**Prep Batch: 914**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.100 | 0.1206 | | mg/Kg | | 120 | 70 - 130 | | |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

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

**Lab Sample ID: 890-378-8 MS**
**Matrix: Solid**
**Analysis Batch: 903**

**Client Sample ID: FS05**
**Prep Type: Total/NA**
**Prep Batch: 914**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | <0.00200 | U | 0.100 | 0.1114 | | mg/Kg | | 111 | 70 - 130 |
| Ethylbenzene | <0.00200 | U | 0.100 | 0.1122 | | mg/Kg | | 112 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.200 | 0.2304 | | mg/Kg | | 115 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.100 | 0.1295 | | mg/Kg | | 129 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *125* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: 890-378-8 MSD**
**Matrix: Solid**
**Analysis Batch: 903**

**Client Sample ID: FS05**
**Prep Type: Total/NA**
**Prep Batch: 914**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.101 | 0.1100 | | mg/Kg | | 109 | 70 - 130 | 9 | 35 |
| Toluene | <0.00200 | U | 0.101 | 0.09960 | | mg/Kg | | 99 | 70 - 130 | 11 | 35 |
| Ethylbenzene | <0.00200 | U | 0.101 | 0.1004 | | mg/Kg | | 99 | 70 - 130 | 11 | 35 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.202 | 0.2046 | | mg/Kg | | 101 | 70 - 130 | 12 | 35 |
| o-Xylene | <0.00200 | U | 0.101 | 0.1155 | | mg/Kg | | 114 | 70 - 130 | 11 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *124* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *110* | | *70 - 130* |

**Lab Sample ID: MB 880-936/9**
**Matrix: Solid**
**Analysis Batch: 936**

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

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | | 03/26/21 21:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | | 03/26/21 21:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | | 03/26/21 21:22 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | | 03/26/21 21:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | | 03/26/21 21:22 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | | 03/26/21 21:22 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | | 03/26/21 21:22 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | | *03/26/21 21:22* | *1* |
| *1,4-Difluorobenzene (Surr)* | *95* | | *70 - 130* | | *03/26/21 21:22* | *1* |

**Lab Sample ID: LCS 880-936/3**
**Matrix: Solid**
**Analysis Batch: 936**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09831 | | mg/Kg | | 98 | 70 - 130 |
| Toluene | | | 0.100 | 0.09401 | | mg/Kg | | 94 | 70 - 130 |

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# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

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

**Lab Sample ID: LCS 880-936/3**
**Matrix: Solid**
**Analysis Batch: 936**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | | | 0.100 | 0.09110 | | mg/Kg | | 91 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.1801 | | mg/Kg | | 90 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.08737 | | mg/Kg | | 87 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *83* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: LCSD 880-936/4**
**Matrix: Solid**
**Analysis Batch: 936**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1036 | | mg/Kg | | 104 | 70 - 130 | 5 | 35 |
| Toluene | | | 0.100 | 0.1027 | | mg/Kg | | 103 | 70 - 130 | 9 | 35 |
| Ethylbenzene | | | 0.100 | 0.09787 | | mg/Kg | | 98 | 70 - 130 | 7 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1939 | | mg/Kg | | 97 | 70 - 130 | 7 | 35 |
| o-Xylene | | | 0.100 | 0.09524 | | mg/Kg | | 95 | 70 - 130 | 9 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *108* | | *70 - 130* |

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

**Lab Sample ID: MB 880-1013/1-A**
**Matrix: Solid**
**Analysis Batch: 994**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 1013**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/29/21 21:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/29/21 21:39 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/29/21 21:39 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/29/21 14:26 | 03/29/21 21:39 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *62* | *S1-* | *70 - 130* | *03/29/21 14:26* | *03/29/21 21:39* | *1* |
| *o-Terphenyl* | *67* | *S1-* | *70 - 130* | *03/29/21 14:26* | *03/29/21 21:39* | *1* |

**Lab Sample ID: LCS 880-1013/2-A**
**Matrix: Solid**
**Analysis Batch: 994**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 1013**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1218 | | mg/Kg | | 122 | 70 - 130 | | |

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# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

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

**Lab Sample ID: LCS 880-1013/2-A**
**Matrix: Solid**
**Analysis Batch: 994**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 1013**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1111 | | mg/Kg | | 111 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* |
| *o-Terphenyl* | *110* | | *70 - 130* |

**Lab Sample ID: LCSD 880-1013/3-A**
**Matrix: Solid**
**Analysis Batch: 994**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 1013**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1325 | *+ | mg/Kg | | 133 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1083 | | mg/Kg | | 108 | 70 - 130 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *109* | | *70 - 130* |
| *o-Terphenyl* | *105* | | *70 - 130* |

**Lab Sample ID: MB 880-772/1-A**
**Matrix: Solid**
**Analysis Batch: 783**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 772**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 03/23/21 16:46 | 03/23/21 23:14 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/23/21 16:46 | 03/23/21 23:14 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/23/21 16:46 | 03/23/21 23:14 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/23/21 16:46 | 03/23/21 23:14 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *91* | | *70 - 130* | *03/23/21 16:46* | *03/23/21 23:14* | *1* |
| *o-Terphenyl* | *93* | | *70 - 130* | *03/23/21 16:46* | *03/23/21 23:14* | *1* |

**Lab Sample ID: LCS 880-772/2-A**
**Matrix: Solid**
**Analysis Batch: 783**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 772**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1021 | | mg/Kg | | 102 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 882.8 | | mg/Kg | | 88 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *99* | | *70 - 130* |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

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

**Lab Sample ID: LCS 880-772/2-A**
**Matrix: Solid**
**Analysis Batch: 783**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 772**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 91 | | 70 - 130 |

**Lab Sample ID: LCSD 880-772/3-A**
**Matrix: Solid**
**Analysis Batch: 783**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 772**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1031 | | mg/Kg | | 103 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 892.5 | | mg/Kg | | 89 | 70 - 130 | 1 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 101 | | 70 - 130 |
| o-Terphenyl | 92 | | 70 - 130 |

**Lab Sample ID: MB 880-799/1-A**
**Matrix: Solid**
**Analysis Batch: 832**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 799**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 11:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 11:36 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 11:36 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/24/21 09:46 | 03/25/21 11:36 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 90 | | 70 - 130 | 03/24/21 09:46 | 03/25/21 11:36 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | 03/24/21 09:46 | 03/25/21 11:36 | 1 |

**Lab Sample ID: LCS 880-799/2-A**
**Matrix: Solid**
**Analysis Batch: 832**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 799**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1179 | | mg/Kg | | 118 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1077 | | mg/Kg | | 108 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 115 | | 70 - 130 |
| o-Terphenyl | 108 | | 70 - 130 |

# QC Sample Results

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

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

**Lab Sample ID: LCSD 880-799/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 832** **Prep Batch: 799**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1185 | | mg/Kg | | 118 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1069 | | mg/Kg | | 107 | 70 - 130 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *109* | | *70 - 130* |
| *o-Terphenyl* | *102* | | *70 - 130* |

**Lab Sample ID: MB 880-834/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 847** **Prep Batch: 834**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 12:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 12:03 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 12:03 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/25/21 09:19 | 03/25/21 12:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 12:03* | *1* |
| *o-Terphenyl* | *107* | | *70 - 130* | *03/25/21 09:19* | *03/25/21 12:03* | *1* |

**Lab Sample ID: LCS 880-834/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 847** **Prep Batch: 834**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1376 | *+ | mg/Kg | | 138 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1123 | | mg/Kg | | 112 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *108* | | *70 - 130* |
| *o-Terphenyl* | *102* | | *70 - 130* |

**Lab Sample ID: LCSD 880-834/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 847** **Prep Batch: 834**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1230 | | mg/Kg | | 123 | 70 - 130 | 11 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1109 | | mg/Kg | | 111 | 70 - 130 | 1 | 20 |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

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

**Lab Sample ID: LCSD 880-834/3-A**
**Matrix: Solid**
**Analysis Batch: 847**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 834**

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 103 | | 70 - 130 |
| o-Terphenyl | 95 | | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-628/1-B**
**Matrix: Solid**
**Analysis Batch: 660**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 03/21/21 16:13 | 1 |

**Lab Sample ID: LCS 880-628/2-B**
**Matrix: Solid**
**Analysis Batch: 660**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 243.4 | | mg/Kg | | 97 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-628/3-B**
**Matrix: Solid**
**Analysis Batch: 660**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 247.9 | | mg/Kg | | 99 | 90 - 110 | 2 | 20 |

**Lab Sample ID: 890-378-5 MS**
**Matrix: Solid**
**Analysis Batch: 660**

**Client Sample ID: FS03**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 51.3 | | 250 | 305.8 | | mg/Kg | | 102 | 90 - 110 | | |

**Lab Sample ID: 890-378-5 MSD**
**Matrix: Solid**
**Analysis Batch: 660**

**Client Sample ID: FS03**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 51.3 | | 250 | 305.2 | | mg/Kg | | 102 | 90 - 110 | 0 | 20 |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## GC VOA

### Prep Batch: 883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-883/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 903

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-8 | FS05 | Total/NA | Solid | 8021B | 914 |
| 890-378-9 | FS06 | Total/NA | Solid | 8021B | 914 |
| 890-378-10 | FS07 | Total/NA | Solid | 8021B | 914 |
| 890-378-11 | FS08 | Total/NA | Solid | 8021B | 914 |
| 890-378-12 | FS09 | Total/NA | Solid | 8021B | 914 |
| MB 880-883/5-A | Method Blank | Total/NA | Solid | 8021B | 883 |
| LCS 880-914/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 914 |
| LCSD 880-914/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 914 |
| 890-378-8 MS | FS05 | Total/NA | Solid | 8021B | 914 |
| 890-378-8 MSD | FS05 | Total/NA | Solid | 8021B | 914 |

### Prep Batch: 911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Total/NA | Solid | 5035 | |
| 890-378-2 | SW02 | Total/NA | Solid | 5035 | |
| 890-378-3 | FS01 | Total/NA | Solid | 5035 | |
| 890-378-4 | FS02 | Total/NA | Solid | 5035 | |
| 890-378-5 | FS03 | Total/NA | Solid | 5035 | |
| 890-378-6 | FS04 | Total/NA | Solid | 5035 | |
| 890-378-7 | SW03 | Total/NA | Solid | 5035 | |

### Prep Batch: 914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-8 | FS05 | Total/NA | Solid | 5035 | |
| 890-378-9 | FS06 | Total/NA | Solid | 5035 | |
| 890-378-10 | FS07 | Total/NA | Solid | 5035 | |
| 890-378-11 | FS08 | Total/NA | Solid | 5035 | |
| 890-378-12 | FS09 | Total/NA | Solid | 5035 | |
| LCS 880-914/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-914/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-378-8 MS | FS05 | Total/NA | Solid | 5035 | |
| 890-378-8 MSD | FS05 | Total/NA | Solid | 5035 | |

### Analysis Batch: 936

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Total/NA | Solid | 8021B | 911 |
| 890-378-2 | SW02 | Total/NA | Solid | 8021B | 911 |
| 890-378-3 | FS01 | Total/NA | Solid | 8021B | 911 |
| 890-378-4 | FS02 | Total/NA | Solid | 8021B | 911 |
| 890-378-5 | FS03 | Total/NA | Solid | 8021B | 911 |
| 890-378-6 | FS04 | Total/NA | Solid | 8021B | 911 |
| 890-378-7 | SW03 | Total/NA | Solid | 8021B | 911 |
| MB 880-936/9 | Method Blank | Total/NA | Solid | 8021B | |
| LCS 880-936/3 | Lab Control Sample | Total/NA | Solid | 8021B | |
| LCSD 880-936/4 | Lab Control Sample Dup | Total/NA | Solid | 8021B | |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## GC Semi VOA

### Prep Batch: 772

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Total/NA | Solid | 8015NM Prep | |
| 890-378-3 | FS01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-772/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-772/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-772/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 783

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Total/NA | Solid | 8015B NM | 772 |
| 890-378-3 | FS01 | Total/NA | Solid | 8015B NM | 772 |
| MB 880-772/1-A | Method Blank | Total/NA | Solid | 8015B NM | 772 |
| LCS 880-772/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 772 |
| LCSD 880-772/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 772 |

### Prep Batch: 799

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-11 | FS08 | Total/NA | Solid | 8015NM Prep | |
| 890-378-12 | FS09 | Total/NA | Solid | 8015NM Prep | |
| MB 880-799/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-799/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-799/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-11 | FS08 | Total/NA | Solid | 8015B NM | 799 |
| 890-378-12 | FS09 | Total/NA | Solid | 8015B NM | 799 |
| MB 880-799/1-A | Method Blank | Total/NA | Solid | 8015B NM | 799 |
| LCS 880-799/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 799 |
| LCSD 880-799/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 799 |

### Prep Batch: 834

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-4 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-378-5 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-378-6 | FS04 | Total/NA | Solid | 8015NM Prep | |
| 890-378-7 | SW03 | Total/NA | Solid | 8015NM Prep | |
| 890-378-8 | FS05 | Total/NA | Solid | 8015NM Prep | |
| 890-378-9 | FS06 | Total/NA | Solid | 8015NM Prep | |
| 890-378-10 | FS07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-834/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-834/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-834/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 847

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-4 | FS02 | Total/NA | Solid | 8015B NM | 834 |
| 890-378-5 | FS03 | Total/NA | Solid | 8015B NM | 834 |
| 890-378-6 | FS04 | Total/NA | Solid | 8015B NM | 834 |
| 890-378-7 | SW03 | Total/NA | Solid | 8015B NM | 834 |
| 890-378-8 | FS05 | Total/NA | Solid | 8015B NM | 834 |
| 890-378-9 | FS06 | Total/NA | Solid | 8015B NM | 834 |

# QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

## GC Semi VOA (Continued)

### Analysis Batch: 847 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-10 | FS07 | Total/NA | Solid | 8015B NM | 834 |
| MB 880-834/1-A | Method Blank | Total/NA | Solid | 8015B NM | 834 |
| LCS 880-834/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 834 |
| LCSD 880-834/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 834 |

### Analysis Batch: 994

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-2 | SW02 | Total/NA | Solid | 8015B NM | 1013 |
| MB 880-1013/1-A | Method Blank | Total/NA | Solid | 8015B NM | 1013 |
| LCS 880-1013/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 1013 |
| LCSD 880-1013/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 1013 |

### Prep Batch: 1013

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-2 | SW02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-1013/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-1013/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-1013/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

## HPLC/IC

### Leach Batch: 628

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Soluble | Solid | DI Leach | |
| 890-378-2 | SW02 | Soluble | Solid | DI Leach | |
| 890-378-3 | FS01 | Soluble | Solid | DI Leach | |
| 890-378-4 | FS02 | Soluble | Solid | DI Leach | |
| 890-378-5 | FS03 | Soluble | Solid | DI Leach | |
| 890-378-6 | FS04 | Soluble | Solid | DI Leach | |
| 890-378-7 | SW03 | Soluble | Solid | DI Leach | |
| 890-378-8 | FS05 | Soluble | Solid | DI Leach | |
| 890-378-9 | FS06 | Soluble | Solid | DI Leach | |
| 890-378-10 | FS07 | Soluble | Solid | DI Leach | |
| 890-378-11 | FS08 | Soluble | Solid | DI Leach | |
| 890-378-12 | FS09 | Soluble | Solid | DI Leach | |
| MB 880-628/1-B | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-628/2-B | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-628/3-B | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-378-5 MS | FS03 | Soluble | Solid | DI Leach | |
| 890-378-5 MSD | FS03 | Soluble | Solid | DI Leach | |

### Analysis Batch: 660

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Soluble | Solid | 300.0 | 628 |
| 890-378-2 | SW02 | Soluble | Solid | 300.0 | 628 |
| 890-378-3 | FS01 | Soluble | Solid | 300.0 | 628 |
| 890-378-4 | FS02 | Soluble | Solid | 300.0 | 628 |
| 890-378-5 | FS03 | Soluble | Solid | 300.0 | 628 |
| 890-378-6 | FS04 | Soluble | Solid | 300.0 | 628 |
| 890-378-7 | SW03 | Soluble | Solid | 300.0 | 628 |
| 890-378-8 | FS05 | Soluble | Solid | 300.0 | 628 |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## HPLC/IC (Continued)

### Analysis Batch: 660 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-378-9 | FS06 | Soluble | Solid | 300.0 | 628 |
| 890-378-10 | FS07 | Soluble | Solid | 300.0 | 628 |
| 890-378-11 | FS08 | Soluble | Solid | 300.0 | 628 |
| 890-378-12 | FS09 | Soluble | Solid | 300.0 | 628 |
| MB 880-628/1-B | Method Blank | Soluble | Solid | 300.0 | 628 |
| LCS 880-628/2-B | Lab Control Sample | Soluble | Solid | 300.0 | 628 |
| LCSD 880-628/3-B | Lab Control Sample Dup | Soluble | Solid | 300.0 | 628 |
| 890-378-5 MS | FS03 | Soluble | Solid | 300.0 | 628 |
| 890-378-5 MSD | FS03 | Soluble | Solid | 300.0 | 628 |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: SW01 Lab Sample ID: 890-378-1

**Date Collected: 03/17/21 09:01** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 03:17 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 772 | 03/23/21 16:46 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 783 | 03/24/21 07:39 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 17:20 | A1S | XM |

## Client Sample ID: SW02 Lab Sample ID: 890-378-2

**Date Collected: 03/17/21 09:05** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 03:38 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 1013 | 03/29/21 14:26 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 994 | 03/30/21 03:15 | T1S | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 17:25 | A1S | XM |

## Client Sample ID: FS01 Lab Sample ID: 890-378-3

**Date Collected: 03/17/21 09:51** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 03:59 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 772 | 03/23/21 16:46 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 783 | 03/24/21 08:22 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 17:30 | A1S | XM |

## Client Sample ID: FS02 Lab Sample ID: 890-378-4

**Date Collected: 03/17/21 09:59** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 04:20 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 18:42 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 17:36 | A1S | XM |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS03 Lab Sample ID: 890-378-5

**Date Collected: 03/17/21 10:04** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 04:41 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 19:02 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 17:41 | A1S | XM |

## Client Sample ID: FS04 Lab Sample ID: 890-378-6

**Date Collected: 03/17/21 10:09** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 05:01 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 19:23 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 17:56 | A1S | XM |

## Client Sample ID: SW03 Lab Sample ID: 890-378-7

**Date Collected: 03/17/21 10:38** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 911 | 03/26/21 14:34 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 936 | 03/27/21 05:22 | AJ | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 19:44 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 18:02 | A1S | XM |

## Client Sample ID: FS05 Lab Sample ID: 890-378-8

**Date Collected: 03/17/21 10:43** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 914 | 03/26/21 14:55 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 903 | 03/27/21 01:26 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 20:05 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 18:17 | A1S | XM |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS06 Lab Sample ID: 890-378-9

**Date Collected: 03/17/21 10:48** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 914 | 03/26/21 14:55 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 903 | 03/27/21 01:47 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 20:26 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 18:22 | A1S | XM |

## Client Sample ID: FS07 Lab Sample ID: 890-378-10

**Date Collected: 03/17/21 10:52** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 914 | 03/26/21 14:55 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 903 | 03/27/21 02:07 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 834 | 03/25/21 09:19 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 847 | 03/25/21 20:47 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 18:28 | A1S | XM |

## Client Sample ID: FS08 Lab Sample ID: 890-378-11

**Date Collected: 03/17/21 10:57** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 914 | 03/26/21 14:55 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 903 | 03/27/21 02:27 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 799 | 03/24/21 09:46 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 832 | 03/25/21 18:19 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 18:33 | A1S | XM |

## Client Sample ID: FS09 Lab Sample ID: 890-378-12

**Date Collected: 03/17/21 11:03** **Matrix: Solid**
**Date Received: 03/17/21 16:56**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 914 | 03/26/21 14:55 | KL | XM |
| Total/NA | Analysis | 8021B | | 1 | 903 | 03/27/21 02:48 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 799 | 03/24/21 09:46 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 832 | 03/25/21 18:40 | AM | XM |
| Soluble | Leach | DI Leach | | | 628 | 03/21/21 11:50 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 660 | 03/21/21 18:38 | A1S | XM |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Laboratory: Eurofins Xenco, Midland

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

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

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

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

# Method Summary

Client: WSP USA Inc. Job ID: 890-378-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

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

**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:**

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

# Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-378-1
SDG: TE012921016

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 890-378-1 | SW01 | Solid | 03/17/21 09:01 | 03/17/21 16:56 | |
| 890-378-2 | SW02 | Solid | 03/17/21 09:05 | 03/17/21 16:56 | |
| 890-378-3 | FS01 | Solid | 03/17/21 09:51 | 03/17/21 16:56 | |
| 890-378-4 | FS02 | Solid | 03/17/21 09:59 | 03/17/21 16:56 | |
| 890-378-5 | FS03 | Solid | 03/17/21 10:04 | 03/17/21 16:56 | |
| 890-378-6 | FS04 | Solid | 03/17/21 10:09 | 03/17/21 16:56 | |
| 890-378-7 | SW03 | Solid | 03/17/21 10:38 | 03/17/21 16:56 | |
| 890-378-8 | FS05 | Solid | 03/17/21 10:43 | 03/17/21 16:56 | |
| 890-378-9 | FS06 | Solid | 03/17/21 10:48 | 03/17/21 16:56 | |
| 890-378-10 | FS07 | Solid | 03/17/21 10:52 | 03/17/21 16:56 | |
| 890-378-11 | FS08 | Solid | 03/17/21 10:57 | 03/17/21 16:56 | |
| 890-378-12 | FS09 | Solid | 03/17/21 11:03 | 03/17/21 16:56 | |

# Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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)

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| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 W. Mermod St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 Email: | | Jeremy.Hill@wsp.com, Dan.Moir@wsp.com |

**Work Order Comments**

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Ross Draw 25N Battery | Turn Around | |
| Project Number: | TEC18931016 | Routine | ☑ |
| P.O. Number: | Spill date: 1/7/21 | Rush: | |
| Sampler's Name: | Jeremy Hill | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No |
| Temperature (°C): | 1.8/0.8 | Thermometer ID | CWM-007 |
| Received Intact: | Yes No | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.7 |
| Sample Custody Seals: | Yes No N/A | Total Containers: | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) |
|---|---|---|---|---|---|---|---|---|
| SW01 | S | 3/17/21 | 0901 | 0-1' | 1 | X | X | X |
| SW02 | | | 0905 | 0-1' | | | | |
| FS01 | | | 0951 | 2.0' | | | | |
| FS02 | | | 0959 | 2.0' | | | | |
| FS03 | | | 1004 | 2.0' | | | | |
| FS04 | | | 1009 | 2.0' | | | | |
| SW03 | | | 1038 | 0-1' | | | | |
| FS05 | | | 1043 | 2.0' | | | | |
| FS06 | | | 1048 | 2.0' | | | | |
| FS07 | | | 1052 | 2.0' | | | | |

890-378 Chain of Custody

**Work Order Notes**

CC# 105665 1001
API 30-015-45595
Inc. # NAPP2101733095

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

**Sample Comments**

Composite

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

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | Clare Cuffe | 3-17-21 1650 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 051418 Rev. 2018.1

# Chain of Custody

XENCO LABORATORIES

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)

Work Order No: _____

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| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 W. Mermod St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | Jeremy.Hill@wsp.com, Dan.Moir@wsp.com |

**Work Order Comments**

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Ross Draw 25N Battery | Turn Around | |
| Project Number: | TE01929101G | Routine | ☑ |
| P.O. Number: | Spill date: 1/7/21 | Rush: | |
| Sampler's Name: | Jeremy Hill | Due Date: | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | | Thermometer ID | | |
| Received Intact: | Yes No | See Pg 1 | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) |
|---|---|---|---|---|---|---|---|---|
| FS08 | S | 3/17/21 | 1057 | 2.0' | 1 | X | X | X |
| FS09 | S | 3/17/21 | 1103 | 2.0' | 1 | X | X | X |

**ANALYSIS REQUEST**

**Work Order Notes**

CCH
105665 1001
API
30-015-45595
Inc #
NAPP ~~2101R~~ 2101333095

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

**Sample Comments**

Composite
Composite

*Note: samples labeled as "Ross Draw 25N CTB" on jars.

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

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 051418 Rev. 2018.1

**Eurofins Xenco, Carlsbad**
1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Kramer Jessica | Carrier Tracking No(s): | COC No: 890-106 1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: jessica kramer@eurofinset com | State of Origin: New Mexico | Page: Page 1 of 2 |
| Company: Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana NELAP - Texas | | Job #: 890-378-1 |
| Address: 1211 W Florida Ave, , | Due Date Requested: 3/24/2021 | | | |
| City: Midland | TAT Requested (days): | | | |
| State, Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email | WO #: | | | |
| Project Name: Ross Draw 25 N Battery | Project #: 89000004 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes.**

A HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I - Ice, J DI Water, K - EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q - Na2SO3, R - Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015MOD_NM/8015NM_S_Prep Full TPH | 300_ORGFM_28D/DI_LEACH Chloride | 8021B/5035FP_Calc BTEX | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| SW01 (890-378-1) | 3/17/21 | 09 01 Mountain | | Solid | | | X | X | X | 1 | |
| SW02 (890-378-2) | 3/17/21 | 09 05 Mountain | | Solid | | | X | X | X | 1 | |
| FS01 (890-378-3) | 3/17/21 | 09 51 Mountain | | Solid | | | X | X | X | 1 | |
| FS02 (890-378-4) | 3/17/21 | 09 59 Mountain | | Solid | | | X | X | X | 1 | |
| FS03 (890-378-5) | 3/17/21 | 10 04 Mountain | | Solid | | | X | X | X | 1 | |
| FS04 (890-378-6) | 3/17/21 | 10 09 Mountain | | Solid | | | X | X | X | 1 | |
| SW03 (890-378-7) | 3/17/21 | 10 38 Mountain | | Solid | | | X | X | X | 1 | |
| FS05 (890-378-8) | 3/17/21 | 10 43 Mountain | | Solid | | | X | X | X | 1 | |
| FS06 (890-378-9) | 3/17/21 | 10 48 Mountain | | Solid | | | X | X | X | 1 | |

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon 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

| ***Possible Hazard Identification*** | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested I II III, IV, Other (specify) Primary Deliverable Rank 2 | Special Instructions/QC Requirements. |

| Empty Kit Relinquished by | Date | Time | Method of Shipment. |
|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Relinquished by: Clee Cuptr 3.18.21 | Date/Time: | Company | Received by: Kramer | Date/Time: 3/19/21 1100 | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks. |
|---|---|---|

Ver: 11/01/2020

**Eurofins Xenco, Carlsbad**
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Kramer Jessica | Carrier Tracking No(s): | COC No: 890-106 2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: jessica.kramer@eurofinset.com | State of Origin: New Mexico | Page: Page 2 of 2 |
| Company: Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana NELAP - Texas | | Job #: 890-378-1 |
| Address: 1211 W Florida Ave | Due Date Requested: 3/24/2021 | | | |
| City: Midland | TAT Requested (days): | | | |
| State, Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: Ross Draw 25 N Battery | Project #: 89000004 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes**

A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015MOD_NM/8015NM_S_Prep Full TPH | 300_ORGFM_28D/DI_LEACH Chloride | 8021B/5035FP_Calc BTEX | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| FS07 (890-378-10) | 3/17/21 | 10 52 Mountain | | Solid | | | X | X | X | 1 | |
| FS08 (890-378-11) | 3/17/21 | 10 57 Mountain | | Solid | | | X | X | X | 1 | |
| FS09 (890-378-12) | 3/17/21 | 11 03 Mountain | | Solid | | | X | X | X | 1 | |

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon 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.

| ***Possible Hazard Identification*** | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2 | Special Instructions/QC Requirements. |

| Empty Kit Relinquished by | Date | Time | Method of Shipment: |
|---|---|---|---|

| Relinquished by | Date/Time: | Company | Received by | Date/Time: | Company |
|---|---|---|---|---|---|
| Relinquished by: [signature] 3-18-21 0700 | | | | | |
| Relinquished by | Date/Time: | Company | Received by | Date/Time: | Company |
| Relinquished by | Date/Time: | Company | Received by | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

Ver: 11/01/2020

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-378-1
SDG Number: TE012921016

**Login Number: 378**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

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

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-378-1
SDG Number: TE012921016

**Login Number: 378**
**List Number: 2**
**Creator: Kramer, Jessica**

**List Source: Eurofins Midland**
**List Creation: 03/18/21 11:51 AM**

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

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 890-395-1
Laboratory Sample Delivery Group: Spill Date 01/07/2021
Client Project/Site: Ross Draw 25 N Battery

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

Attn: Dan Moir

JKramer

*Authorized for release by:*
*3/31/2021 11:42:19 AM*

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.*

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Laboratory Job ID: 890-395-1
SDG: Spill Date 01/07/2021

# Table of Contents

# Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Job ID: 890-395-1

### Laboratory: Eurofins Xenco, Carlsbad

**Narrative**

**Job Narrative**
**890-395-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 3/18/2021 4:53 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6º C.

**Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SW04 (890-395-1), SW05 (890-395-2), SW06 (890-395-3), SW07 (890-395-4), FS10 (890-395-5), FS11 (890-395-6), FS12 (890-395-7), FS13 (890-395-8), FS14 (890-395-9), FS15 (890-395-10), FS17 (890-395-11), FS18 (890-395-12), FS19 (890-395-13), FS20 (890-395-14), FS21 (890-395-15), FS22 (890-395-16), BH01 (890-395-17), BH01A (890-395-18) and FS16 (890-395-19).

**GC VOA**
Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: SW04 (890-395-1), FS10 (890-395-5) and FS18 (890-395-12). The sample(s) shows evidence of matrix interference.

Method 8021B: Internal standard responses were outside of acceptance limits for the following sample: FS16 (890-395-19). The sample(s) shows evidence of matrix interference.

**GC Semi VOA**
Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-908 and analytical batch 880-946 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: SW04

**Date Collected: 03/18/21 08:56**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-1**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 23:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *126* | | *70 - 130* | *03/29/21 16:08* | *03/29/21 23:53* | *1* |
| *1,4-Difluorobenzene (Surr)* | *83* | | *70 - 130* | *03/29/21 16:08* | *03/29/21 23:53* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 14:30 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 14:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 14:30 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 14:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *91* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 14:30* | *1* |
| *o-Terphenyl* | *86* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 14:30* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **69.0** | | 4.98 | | mg/Kg | | | 03/23/21 23:28 | 1 |

## Client Sample ID: SW05

**Date Collected: 03/18/21 09:01**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-2**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 00:13* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 00:13* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 15:37 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 15:37 | 1 |

Eurofins Xenco, Carlsbad

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: SW05 Lab Sample ID: 890-395-2
**Date Collected: 03/18/21 09:01** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 15:37 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 15:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *77* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 15:37* | *1* |
| *o-Terphenyl* | *73* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 15:37* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **243** | | 4.99 | | mg/Kg | | | 03/23/21 23:44 | 1 |

## Client Sample ID: SW06 Lab Sample ID: 890-395-3
**Date Collected: 03/18/21 09:07** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 00:33* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 00:33* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U *+ | 49.7 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:03 | 1 |
| Total TPH | <49.7 | U | 49.7 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:03 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:03 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *82* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 16:03* | *1* |
| *o-Terphenyl* | *82* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 16:03* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **190** | | 4.96 | | mg/Kg | | | 03/23/21 23:49 | 1 |

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: SW07

**Date Collected: 03/18/21 09:12**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-4**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 00:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 00:54* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 00:54* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:25 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:25 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *76* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 16:25* | *1* |
| *o-Terphenyl* | *76* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 16:25* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **96.1** | | 4.97 | | mg/Kg | | | 03/23/21 23:54 | 1 |

## Client Sample ID: FS10

**Date Collected: 03/18/21 10:01**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-5**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 02:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *133* | *S1+* | *70 - 130* | *03/29/21 16:08* | *03/30/21 02:44* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 02:44* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *+ | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:46 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:46 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS10 Lab Sample ID: 890-395-5
**Date Collected: 03/18/21 10:01** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:46 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 16:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *78* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 16:46* | *1* |
| *o-Terphenyl* | *80* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 16:46* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **85.0** | | 5.00 | | mg/Kg | | | 03/24/21 00:00 | 1 |

## Client Sample ID: FS11 Lab Sample ID: 890-395-6
**Date Collected: 03/18/21 10:05** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *115* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 03:04* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 03:04* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:08 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:08 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *83* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 17:08* | *1* |
| *o-Terphenyl* | *81* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 17:08* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **170** | | 5.00 | | mg/Kg | | | 03/24/21 00:05 | 1 |

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: FS12

**Date Collected: 03/18/21 10:09**
**Date Received: 03/18/21 16:53**

## Lab Sample ID: 890-395-7

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 03:25* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 03:25* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:29 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:29 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *85* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 17:29* | *1* |
| *o-Terphenyl* | *85* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 17:29* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **220** | | 4.98 | | mg/Kg | | | 03/24/21 00:10 | 1 |

## Client Sample ID: FS13

**Date Collected: 03/18/21 10:15**
**Date Received: 03/18/21 16:53**

## Lab Sample ID: 890-395-8

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 03:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 03:45* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 03:45* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:50 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:50 | 1 |

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# Client Sample Results

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS13 Lab Sample ID: 890-395-8
**Date Collected: 03/18/21 10:15** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:50 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 17:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *88* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 17:50* | *1* |
| *o-Terphenyl* | *91* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 17:50* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **299** | | 4.99 | | mg/Kg | | | 03/24/21 00:15 | 1 |

## Client Sample ID: FS14 Lab Sample ID: 890-395-9
**Date Collected: 03/18/21 10:19** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 04:06* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 04:06* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:12 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:12 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:12 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *94* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 18:12* | *1* |
| *o-Terphenyl* | *93* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 18:12* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **170** | | 5.05 | | mg/Kg | | | 03/23/21 13:58 | 1 |

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: FS15

**Date Collected: 03/18/21 10:24**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-10**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 04:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *99* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 04:26* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *+ | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:33 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:33 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:33 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 18:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *88* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 18:33* | *1* |
| *o-Terphenyl* | *88* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 18:33* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **251** | | 5.00 | | mg/Kg | | | 03/23/21 14:03 | 1 |

## Client Sample ID: FS17

**Date Collected: 03/18/21 10:41**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-11**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 04:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 04:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 04:46* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:17 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:17 | 1 |

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# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: FS17

**Date Collected: 03/18/21 10:41**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-11**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *85* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 19:17* | *1* |
| *o-Terphenyl* | *91* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 19:17* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **410** | | 4.96 | | mg/Kg | | | 03/23/21 14:19 | 1 |

## Client Sample ID: FS18

**Date Collected: 03/18/21 10:46**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-12**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 05:07* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 05:07* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:38 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:38 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:38 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 19:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *89* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 19:38* | *1* |
| *o-Terphenyl* | *92* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 19:38* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **218** | | 4.98 | | mg/Kg | | | 03/23/21 14:24 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS19 Lab Sample ID: 890-395-13
**Date Collected: 03/18/21 10:50** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 05:27* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 05:27* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:00 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *102* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 20:00* | *1* |
| *o-Terphenyl* | *104* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 20:00* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **209** | | 4.95 | | mg/Kg | | | 03/23/21 14:40 | 1 |

## Client Sample ID: FS20 Lab Sample ID: 890-395-14
**Date Collected: 03/18/21 11:05** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/30/21 05:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 05:48* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *03/29/21 16:08* | *03/30/21 05:48* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *+ | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:22 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:22 | 1 |

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# Client Sample Results

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS20 Lab Sample ID: 890-395-14
**Date Collected: 03/18/21 11:05** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:22 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *111* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 20:22* | *1* |
| *o-Terphenyl* | *106* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 20:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **203** | | 5.02 | | mg/Kg | | | 03/23/21 14:45 | 1 |

## Client Sample ID: FS21 Lab Sample ID: 890-395-15
**Date Collected: 03/18/21 11:09** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |
| Toluene | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U F1 F2 | 0.00399 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |
| o-Xylene | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |
| Xylenes, Total | <0.00399 | U F1 F2 | 0.00399 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |
| Total BTEX | <0.00200 | U F1 F2 | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 09:25* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 09:25* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:43 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:43 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 20:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *88* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 20:43* | *1* |
| *o-Terphenyl* | *90* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 20:43* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **102** | | 5.03 | | mg/Kg | | | 03/23/21 14:50 | 1 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS22 Lab Sample ID: 890-395-16
**Date Collected: 03/18/21 11:14** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 09:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 09:46* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 09:46* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:05 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:05 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *88* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 21:05* | *1* |
| *o-Terphenyl* | *89* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 21:05* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **107** | | 4.99 | | mg/Kg | | | 03/23/21 14:55 | 1 |

## Client Sample ID: BH01 Lab Sample ID: 890-395-17
**Date Collected: 03/18/21 12:20** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 10:06* | *1* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 10:06* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:27 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:27 | 1 |

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# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: BH01

**Date Collected: 03/18/21 12:20**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-17**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:27 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *88* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 21:27* | *1* |
| *o-Terphenyl* | *87* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 21:27* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1240** | | 5.03 | | mg/Kg | | | 03/23/21 15:00 | 1 |

## Client Sample ID: BH01A

**Date Collected: 03/18/21 12:26**
**Date Received: 03/18/21 16:53**

**Lab Sample ID: 890-395-18**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 10:26* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 10:26* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *+ | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:48 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:48 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 21:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *97* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 21:48* | *1* |
| *o-Terphenyl* | *97* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 21:48* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **266** | | 4.98 | | mg/Kg | | | 03/23/21 15:05 | 1 |

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Client Sample ID: FS16

**Date Collected: 03/18/21 13:35**
**Date Received: 03/18/21 16:53**

## Lab Sample ID: 890-395-19

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 10:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 10:47* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 10:47* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 22:10 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 22:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 22:10 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 22:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *83* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 22:10* | *1* |
| *o-Terphenyl* | *82* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 22:10* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **23.6** | | 5.00 | | mg/Kg | | | 03/23/21 15:11 | 1 |

# Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-395-1 | SW04 | 126 | 83 |
| 890-395-2 | SW05 | 116 | 100 |
| 890-395-3 | SW06 | 114 | 102 |
| 890-395-4 | SW07 | 115 | 98 |
| 890-395-5 | FS10 | 133 S1+ | 91 |
| 890-395-6 | FS11 | 115 | 101 |
| 890-395-7 | FS12 | 110 | 100 |
| 890-395-8 | FS13 | 113 | 103 |
| 890-395-9 | FS14 | 114 | 102 |
| 890-395-10 | FS15 | 112 | 99 |
| 890-395-11 | FS17 | 113 | 101 |
| 890-395-12 | FS18 | 120 | 94 |
| 890-395-13 | FS19 | 118 | 98 |
| 890-395-14 | FS20 | 117 | 98 |
| 890-395-15 | FS21 | 112 | 101 |
| 890-395-15 MS | FS21 | 135 S1+ | 92 |
| 890-395-15 MSD | FS21 | 106 | 98 |
| 890-395-16 | FS22 | 112 | 100 |
| 890-395-17 | BH01 | 117 | 103 |
| 890-395-18 | BH01A | 113 | 101 |
| 890-395-19 | FS16 | 116 | 97 |
| LCS 880-1024/1-A | Lab Control Sample | 101 | 99 |
| LCS 880-1027/1-A | Lab Control Sample | 103 | 98 |
| LCSD 880-1024/2-A | Lab Control Sample Dup | 105 | 101 |
| LCSD 880-1027/2-A | Lab Control Sample Dup | 106 | 101 |
| MB 880-1024/5-A | Method Blank | 103 | 96 |
| MB 880-1027/5-A | Method Blank | 101 | 98 |

**Surrogate Legend**

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

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-395-1 | SW04 | 91 | 86 |
| 890-395-1 MS | SW04 | 81 | 66 S1- |
| 890-395-1 MSD | SW04 | 91 | 76 |
| 890-395-2 | SW05 | 77 | 73 |
| 890-395-3 | SW06 | 82 | 82 |
| 890-395-4 | SW07 | 76 | 76 |
| 890-395-5 | FS10 | 78 | 80 |
| 890-395-6 | FS11 | 83 | 81 |
| 890-395-7 | FS12 | 85 | 85 |
| 890-395-8 | FS13 | 88 | 91 |
| 890-395-9 | FS14 | 94 | 93 |
| 890-395-10 | FS15 | 88 | 88 |

# Surrogate Summary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) | | | | | | | | |
| 890-395-11 | FS17 | 85 | 91 | | | | | | | | |
| 890-395-12 | FS18 | 89 | 92 | | | | | | | | |
| 890-395-13 | FS19 | 102 | 104 | | | | | | | | |
| 890-395-14 | FS20 | 111 | 106 | | | | | | | | |
| 890-395-15 | FS21 | 88 | 90 | | | | | | | | |
| 890-395-16 | FS22 | 88 | 89 | | | | | | | | |
| 890-395-17 | BH01 | 88 | 87 | | | | | | | | |
| 890-395-18 | BH01A | 97 | 97 | | | | | | | | |
| 890-395-19 | FS16 | 83 | 82 | | | | | | | | |
| LCS 880-908/2-A | Lab Control Sample | 98 | 85 | | | | | | | | |
| LCSD 880-908/3-A | Lab Control Sample Dup | 101 | 85 | | | | | | | | |
| MB 880-908/1-A | Method Blank | 84 | 81 | | | | | | | | |

**Surrogate Legend**

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

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

**Lab Sample ID: MB 880-1024/5-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 1024**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:08 | 03/29/21 21:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *03/29/21 16:08* | *03/29/21 21:21* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *03/29/21 16:08* | *03/29/21 21:21* | *1* |

**Lab Sample ID: LCS 880-1024/1-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 1024**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1092 | | mg/Kg | | 109 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1104 | | mg/Kg | | 110 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1148 | | mg/Kg | | 115 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2316 | | mg/Kg | | 116 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1120 | | mg/Kg | | 112 | 70 - 130 | | |

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

**Lab Sample ID: LCSD 880-1024/2-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 1024**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1157 | | mg/Kg | | 116 | 70 - 130 | 6 | 35 |
| Toluene | | | 0.100 | 0.1176 | | mg/Kg | | 118 | 70 - 130 | 6 | 35 |
| Ethylbenzene | | | 0.100 | 0.1203 | | mg/Kg | | 120 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2452 | | mg/Kg | | 123 | 70 - 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.1183 | | mg/Kg | | 118 | 70 - 130 | 5 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: MB 880-1027/5-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

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

**Lab Sample ID: MB 880-1027/5-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/29/21 16:37 | 03/30/21 08:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 08:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *03/29/21 16:37* | *03/30/21 08:56* | *1* |

**Lab Sample ID: LCS 880-1027/1-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1026 | | mg/Kg | | 103 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1040 | | mg/Kg | | 104 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1053 | | mg/Kg | | 105 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2127 | | mg/Kg | | 106 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1062 | | mg/Kg | | 106 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 880-1027/2-A**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1110 | | mg/Kg | | 111 | 70 - 130 | 8 | 35 |
| Toluene | | | 0.100 | 0.1121 | | mg/Kg | | 112 | 70 - 130 | 7 | 35 |
| Ethylbenzene | | | 0.100 | 0.1141 | | mg/Kg | | 114 | 70 - 130 | 8 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2316 | | mg/Kg | | 116 | 70 - 130 | 8 | 35 |
| o-Xylene | | | 0.100 | 0.1156 | | mg/Kg | | 116 | 70 - 130 | 9 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: 890-395-15 MS**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: FS21**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 F2 | 0.0998 | 0.01747 | F1 | mg/Kg | | 18 | 70 - 130 | | |
| Toluene | <0.00200 | U F1 F2 | 0.0998 | 0.01912 | F1 | mg/Kg | | 19 | 70 - 130 | | |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

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

**Lab Sample ID: 890-395-15 MS**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: FS21**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U F1 F2 | 0.0998 | 0.02577 | F1 | mg/Kg | | 26 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00399 | U F1 F2 | 0.200 | 0.04896 | F1 | mg/Kg | | 25 | 70 - 130 |
| o-Xylene | <0.00200 | U F1 F2 | 0.0998 | 0.02591 | F1 | mg/Kg | | 26 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *135* | *S1+* | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *92* | | *70 - 130* |

**Lab Sample ID: 890-395-15 MSD**
**Matrix: Solid**
**Analysis Batch: 1023**

**Client Sample ID: FS21**
**Prep Type: Total/NA**
**Prep Batch: 1027**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U F1 F2 | 0.101 | 0.06520 | F1 F2 | mg/Kg | | 65 | 70 - 130 | 115 | 35 |
| Toluene | <0.00200 | U F1 F2 | 0.101 | 0.06788 | F1 F2 | mg/Kg | | 67 | 70 - 130 | 112 | 35 |
| Ethylbenzene | <0.00200 | U F1 F2 | 0.101 | 0.07234 | F2 | mg/Kg | | 72 | 70 - 130 | 95 | 35 |
| m-Xylene & p-Xylene | <0.00399 | U F1 F2 | 0.202 | 0.1480 | F2 | mg/Kg | | 73 | 70 - 130 | 101 | 35 |
| o-Xylene | <0.00200 | U F1 F2 | 0.101 | 0.07312 | F2 | mg/Kg | | 73 | 70 - 130 | 95 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

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

**Lab Sample ID: MB 880-908/1-A**
**Matrix: Solid**
**Analysis Batch: 946**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 908**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 13:23 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 13:23 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 13:23 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/26/21 14:06 | 03/27/21 13:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *84* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 13:23* | *1* |
| *o-Terphenyl* | *81* | | *70 - 130* | *03/26/21 14:06* | *03/27/21 13:23* | *1* |

**Lab Sample ID: LCS 880-908/2-A**
**Matrix: Solid**
**Analysis Batch: 946**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 908**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1264 | | mg/Kg | | 126 | 70 - 130 |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

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

**Lab Sample ID: LCS 880-908/2-A**
**Matrix: Solid**
**Analysis Batch: 946**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 908**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | | | 1000 | 833.5 | | mg/Kg | | 83 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *98* | | *70 - 130* |
| *o-Terphenyl* | *85* | | *70 - 130* |

**Lab Sample ID: LCSD 880-908/3-A**
**Matrix: Solid**
**Analysis Batch: 946**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 908**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1393 | *+ | mg/Kg | | 139 | 70 - 130 | 10 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 856.0 | | mg/Kg | | 86 | 70 - 130 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *101* | | *70 - 130* |
| *o-Terphenyl* | *85* | | *70 - 130* |

**Lab Sample ID: 890-395-1 MS**
**Matrix: Solid**
**Analysis Batch: 946**

**Client Sample ID: SW04**
**Prep Type: Total/NA**
**Prep Batch: 908**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 1000 | 1062 | | mg/Kg | | 106 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 1000 | 716.5 | | mg/Kg | | 72 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *81* | | *70 - 130* |
| *o-Terphenyl* | *66* | *S1-* | *70 - 130* |

**Lab Sample ID: 890-395-1 MSD**
**Matrix: Solid**
**Analysis Batch: 946**

**Client Sample ID: SW04**
**Prep Type: Total/NA**
**Prep Batch: 908**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *+ | 998 | 1117 | | mg/Kg | | 112 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 813.0 | | mg/Kg | | 81 | 70 - 130 | 13 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *91* | | *70 - 130* |
| *o-Terphenyl* | *76* | | *70 - 130* |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-679/1-A**
**Matrix: Solid**
**Analysis Batch: 757**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 03/23/21 12:35 | 1 |

**Lab Sample ID: LCS 880-679/2-A**
**Matrix: Solid**
**Analysis Batch: 757**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 261.7 | | mg/Kg | | 105 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-679/3-A**
**Matrix: Solid**
**Analysis Batch: 757**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 241.1 | | mg/Kg | | 96 | 90 - 110 | 8 | 20 |

**Lab Sample ID: 890-395-10 MS**
**Matrix: Solid**
**Analysis Batch: 757**

**Client Sample ID: FS15**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 251 | | 250 | 486.1 | | mg/Kg | | 94 | 90 - 110 | | |

**Lab Sample ID: 890-395-10 MSD**
**Matrix: Solid**
**Analysis Batch: 757**

**Client Sample ID: FS15**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 251 | | 250 | 520.7 | | mg/Kg | | 108 | 90 - 110 | 7 | 20 |

**Lab Sample ID: MB 880-678/1-A**
**Matrix: Solid**
**Analysis Batch: 764**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 03/23/21 21:40 | 1 |

**Lab Sample ID: LCS 880-678/2-A**
**Matrix: Solid**
**Analysis Batch: 764**

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

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

**Lab Sample ID: LCSD 880-678/3-A**
**Matrix: Solid**
**Analysis Batch: 764**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 246.7 | | mg/Kg | | 99 | 90 - 110 | 1 | 20 |

# QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

## GC VOA

### Analysis Batch: 1023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Total/NA | Solid | 8021B | 1024 |
| 890-395-2 | SW05 | Total/NA | Solid | 8021B | 1024 |
| 890-395-3 | SW06 | Total/NA | Solid | 8021B | 1024 |
| 890-395-4 | SW07 | Total/NA | Solid | 8021B | 1024 |
| 890-395-5 | FS10 | Total/NA | Solid | 8021B | 1024 |
| 890-395-6 | FS11 | Total/NA | Solid | 8021B | 1024 |
| 890-395-7 | FS12 | Total/NA | Solid | 8021B | 1024 |
| 890-395-8 | FS13 | Total/NA | Solid | 8021B | 1024 |
| 890-395-9 | FS14 | Total/NA | Solid | 8021B | 1024 |
| 890-395-10 | FS15 | Total/NA | Solid | 8021B | 1024 |
| 890-395-11 | FS17 | Total/NA | Solid | 8021B | 1024 |
| 890-395-12 | FS18 | Total/NA | Solid | 8021B | 1024 |
| 890-395-13 | FS19 | Total/NA | Solid | 8021B | 1024 |
| 890-395-14 | FS20 | Total/NA | Solid | 8021B | 1024 |
| 890-395-15 | FS21 | Total/NA | Solid | 8021B | 1027 |
| 890-395-16 | FS22 | Total/NA | Solid | 8021B | 1027 |
| 890-395-17 | BH01 | Total/NA | Solid | 8021B | 1027 |
| 890-395-18 | BH01A | Total/NA | Solid | 8021B | 1027 |
| 890-395-19 | FS16 | Total/NA | Solid | 8021B | 1027 |
| MB 880-1024/5-A | Method Blank | Total/NA | Solid | 8021B | 1024 |
| MB 880-1027/5-A | Method Blank | Total/NA | Solid | 8021B | 1027 |
| LCS 880-1024/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 1024 |
| LCS 880-1027/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 1027 |
| LCSD 880-1024/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 1024 |
| LCSD 880-1027/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 1027 |
| 890-395-15 MS | FS21 | Total/NA | Solid | 8021B | 1027 |
| 890-395-15 MSD | FS21 | Total/NA | Solid | 8021B | 1027 |

### Prep Batch: 1024

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Total/NA | Solid | 5035 | |
| 890-395-2 | SW05 | Total/NA | Solid | 5035 | |
| 890-395-3 | SW06 | Total/NA | Solid | 5035 | |
| 890-395-4 | SW07 | Total/NA | Solid | 5035 | |
| 890-395-5 | FS10 | Total/NA | Solid | 5035 | |
| 890-395-6 | FS11 | Total/NA | Solid | 5035 | |
| 890-395-7 | FS12 | Total/NA | Solid | 5035 | |
| 890-395-8 | FS13 | Total/NA | Solid | 5035 | |
| 890-395-9 | FS14 | Total/NA | Solid | 5035 | |
| 890-395-10 | FS15 | Total/NA | Solid | 5035 | |
| 890-395-11 | FS17 | Total/NA | Solid | 5035 | |
| 890-395-12 | FS18 | Total/NA | Solid | 5035 | |
| 890-395-13 | FS19 | Total/NA | Solid | 5035 | |
| 890-395-14 | FS20 | Total/NA | Solid | 5035 | |
| MB 880-1024/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-1024/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-1024/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |

### Prep Batch: 1027

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-15 | FS21 | Total/NA | Solid | 5035 | |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## GC VOA (Continued)

### Prep Batch: 1027 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-16 | FS22 | Total/NA | Solid | 5035 | |
| 890-395-17 | BH01 | Total/NA | Solid | 5035 | |
| 890-395-18 | BH01A | Total/NA | Solid | 5035 | |
| 890-395-19 | FS16 | Total/NA | Solid | 5035 | |
| MB 880-1027/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-1027/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-1027/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-395-15 MS | FS21 | Total/NA | Solid | 5035 | |
| 890-395-15 MSD | FS21 | Total/NA | Solid | 5035 | |

## GC Semi VOA

### Prep Batch: 908

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Total/NA | Solid | 8015NM Prep | |
| 890-395-2 | SW05 | Total/NA | Solid | 8015NM Prep | |
| 890-395-3 | SW06 | Total/NA | Solid | 8015NM Prep | |
| 890-395-4 | SW07 | Total/NA | Solid | 8015NM Prep | |
| 890-395-5 | FS10 | Total/NA | Solid | 8015NM Prep | |
| 890-395-6 | FS11 | Total/NA | Solid | 8015NM Prep | |
| 890-395-7 | FS12 | Total/NA | Solid | 8015NM Prep | |
| 890-395-8 | FS13 | Total/NA | Solid | 8015NM Prep | |
| 890-395-9 | FS14 | Total/NA | Solid | 8015NM Prep | |
| 890-395-10 | FS15 | Total/NA | Solid | 8015NM Prep | |
| 890-395-11 | FS17 | Total/NA | Solid | 8015NM Prep | |
| 890-395-12 | FS18 | Total/NA | Solid | 8015NM Prep | |
| 890-395-13 | FS19 | Total/NA | Solid | 8015NM Prep | |
| 890-395-14 | FS20 | Total/NA | Solid | 8015NM Prep | |
| 890-395-15 | FS21 | Total/NA | Solid | 8015NM Prep | |
| 890-395-16 | FS22 | Total/NA | Solid | 8015NM Prep | |
| 890-395-17 | BH01 | Total/NA | Solid | 8015NM Prep | |
| 890-395-18 | BH01A | Total/NA | Solid | 8015NM Prep | |
| 890-395-19 | FS16 | Total/NA | Solid | 8015NM Prep | |
| MB 880-908/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-908/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-908/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-395-1 MS | SW04 | Total/NA | Solid | 8015NM Prep | |
| 890-395-1 MSD | SW04 | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 946

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-2 | SW05 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-3 | SW06 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-4 | SW07 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-5 | FS10 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-6 | FS11 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-7 | FS12 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-8 | FS13 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-9 | FS14 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-10 | FS15 | Total/NA | Solid | 8015B NM | 908 |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## GC Semi VOA (Continued)

### Analysis Batch: 946 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-11 | FS17 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-12 | FS18 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-13 | FS19 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-14 | FS20 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-15 | FS21 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-16 | FS22 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-17 | BH01 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-18 | BH01A | Total/NA | Solid | 8015B NM | 908 |
| 890-395-19 | FS16 | Total/NA | Solid | 8015B NM | 908 |
| MB 880-908/1-A | Method Blank | Total/NA | Solid | 8015B NM | 908 |
| LCS 880-908/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 908 |
| LCSD 880-908/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 908 |
| 890-395-1 MS | SW04 | Total/NA | Solid | 8015B NM | 908 |
| 890-395-1 MSD | SW04 | Total/NA | Solid | 8015B NM | 908 |

## HPLC/IC

### Leach Batch: 678

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Soluble | Solid | DI Leach | |
| 890-395-2 | SW05 | Soluble | Solid | DI Leach | |
| 890-395-3 | SW06 | Soluble | Solid | DI Leach | |
| 890-395-4 | SW07 | Soluble | Solid | DI Leach | |
| 890-395-5 | FS10 | Soluble | Solid | DI Leach | |
| 890-395-6 | FS11 | Soluble | Solid | DI Leach | |
| 890-395-7 | FS12 | Soluble | Solid | DI Leach | |
| 890-395-8 | FS13 | Soluble | Solid | DI Leach | |
| MB 880-678/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-678/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-678/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

### Leach Batch: 679

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-9 | FS14 | Soluble | Solid | DI Leach | |
| 890-395-10 | FS15 | Soluble | Solid | DI Leach | |
| 890-395-11 | FS17 | Soluble | Solid | DI Leach | |
| 890-395-12 | FS18 | Soluble | Solid | DI Leach | |
| 890-395-13 | FS19 | Soluble | Solid | DI Leach | |
| 890-395-14 | FS20 | Soluble | Solid | DI Leach | |
| 890-395-15 | FS21 | Soluble | Solid | DI Leach | |
| 890-395-16 | FS22 | Soluble | Solid | DI Leach | |
| 890-395-17 | BH01 | Soluble | Solid | DI Leach | |
| 890-395-18 | BH01A | Soluble | Solid | DI Leach | |
| 890-395-19 | FS16 | Soluble | Solid | DI Leach | |
| MB 880-679/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-679/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-679/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-395-10 MS | FS15 | Soluble | Solid | DI Leach | |
| 890-395-10 MSD | FS15 | Soluble | Solid | DI Leach | |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## HPLC/IC

### Analysis Batch: 757

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-9 | FS14 | Soluble | Solid | 300.0 | 679 |
| 890-395-10 | FS15 | Soluble | Solid | 300.0 | 679 |
| 890-395-11 | FS17 | Soluble | Solid | 300.0 | 679 |
| 890-395-12 | FS18 | Soluble | Solid | 300.0 | 679 |
| 890-395-13 | FS19 | Soluble | Solid | 300.0 | 679 |
| 890-395-14 | FS20 | Soluble | Solid | 300.0 | 679 |
| 890-395-15 | FS21 | Soluble | Solid | 300.0 | 679 |
| 890-395-16 | FS22 | Soluble | Solid | 300.0 | 679 |
| 890-395-17 | BH01 | Soluble | Solid | 300.0 | 679 |
| 890-395-18 | BH01A | Soluble | Solid | 300.0 | 679 |
| 890-395-19 | FS16 | Soluble | Solid | 300.0 | 679 |
| MB 880-679/1-A | Method Blank | Soluble | Solid | 300.0 | 679 |
| LCS 880-679/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 679 |
| LCSD 880-679/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 679 |
| 890-395-10 MS | FS15 | Soluble | Solid | 300.0 | 679 |
| 890-395-10 MSD | FS15 | Soluble | Solid | 300.0 | 679 |

### Analysis Batch: 764

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Soluble | Solid | 300.0 | 678 |
| 890-395-2 | SW05 | Soluble | Solid | 300.0 | 678 |
| 890-395-3 | SW06 | Soluble | Solid | 300.0 | 678 |
| 890-395-4 | SW07 | Soluble | Solid | 300.0 | 678 |
| 890-395-5 | FS10 | Soluble | Solid | 300.0 | 678 |
| 890-395-6 | FS11 | Soluble | Solid | 300.0 | 678 |
| 890-395-7 | FS12 | Soluble | Solid | 300.0 | 678 |
| 890-395-8 | FS13 | Soluble | Solid | 300.0 | 678 |
| MB 880-678/1-A | Method Blank | Soluble | Solid | 300.0 | 678 |
| LCS 880-678/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 678 |
| LCSD 880-678/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 678 |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: SW04 Lab Sample ID: 890-395-1
**Date Collected: 03/18/21 08:56** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/29/21 23:53 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 14:30 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/23/21 23:28 | WP | XM |

## Client Sample ID: SW05 Lab Sample ID: 890-395-2
**Date Collected: 03/18/21 09:01** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 00:13 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 15:37 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/23/21 23:44 | WP | XM |

## Client Sample ID: SW06 Lab Sample ID: 890-395-3
**Date Collected: 03/18/21 09:07** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 00:33 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 16:03 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/23/21 23:49 | WP | XM |

## Client Sample ID: SW07 Lab Sample ID: 890-395-4
**Date Collected: 03/18/21 09:12** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 00:54 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 16:25 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/23/21 23:54 | WP | XM |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS10 Lab Sample ID: 890-395-5
**Date Collected: 03/18/21 10:01** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 02:44 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 16:46 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/24/21 00:00 | WP | XM |

## Client Sample ID: FS11 Lab Sample ID: 890-395-6
**Date Collected: 03/18/21 10:05** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 03:04 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 17:08 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/24/21 00:05 | WP | XM |

## Client Sample ID: FS12 Lab Sample ID: 890-395-7
**Date Collected: 03/18/21 10:09** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 03:25 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 17:29 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/24/21 00:10 | WP | XM |

## Client Sample ID: FS13 Lab Sample ID: 890-395-8
**Date Collected: 03/18/21 10:15** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 03:45 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 17:50 | AJ | XM |
| Soluble | Leach | DI Leach | | | 678 | 03/22/21 10:54 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 764 | 03/24/21 00:15 | WP | XM |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS14 Lab Sample ID: 890-395-9
**Date Collected: 03/18/21 10:19** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 04:06 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 18:12 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 13:58 | WP | XM |

## Client Sample ID: FS15 Lab Sample ID: 890-395-10
**Date Collected: 03/18/21 10:24** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 04:26 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 18:33 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:03 | WP | XM |

## Client Sample ID: FS17 Lab Sample ID: 890-395-11
**Date Collected: 03/18/21 10:41** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 04:46 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 19:17 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:19 | WP | XM |

## Client Sample ID: FS18 Lab Sample ID: 890-395-12
**Date Collected: 03/18/21 10:46** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 05:07 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 19:38 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:24 | WP | XM |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: FS19 Lab Sample ID: 890-395-13
**Date Collected: 03/18/21 10:50** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 05:27 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 20:00 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:40 | WP | XM |

## Client Sample ID: FS20 Lab Sample ID: 890-395-14
**Date Collected: 03/18/21 11:05** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1024 | 03/29/21 16:08 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 05:48 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 20:22 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:45 | WP | XM |

## Client Sample ID: FS21 Lab Sample ID: 890-395-15
**Date Collected: 03/18/21 11:09** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1027 | 03/29/21 16:37 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 09:25 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 20:43 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:50 | WP | XM |

## Client Sample ID: FS22 Lab Sample ID: 890-395-16
**Date Collected: 03/18/21 11:14** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1027 | 03/29/21 16:37 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 09:46 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 21:05 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 14:55 | WP | XM |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Client Sample ID: BH01 Lab Sample ID: 890-395-17
**Date Collected: 03/18/21 12:20** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1027 | 03/29/21 16:37 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 10:06 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 21:27 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 15:00 | WP | XM |

## Client Sample ID: BH01A Lab Sample ID: 890-395-18
**Date Collected: 03/18/21 12:26** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1027 | 03/29/21 16:37 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 10:26 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 21:48 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 15:05 | WP | XM |

## Client Sample ID: FS16 Lab Sample ID: 890-395-19
**Date Collected: 03/18/21 13:35** **Matrix: Solid**
**Date Received: 03/18/21 16:53**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1027 | 03/29/21 16:37 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1023 | 03/30/21 10:47 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 908 | 03/26/21 14:06 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 946 | 03/27/21 22:10 | AJ | XM |
| Soluble | Leach | DI Leach | | | 679 | 03/22/21 10:57 | CH | XM |
| Soluble | Analysis | 300.0 | | 1 | 757 | 03/23/21 15:11 | WP | XM |

**Laboratory References:**
XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

# Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

## Laboratory: Eurofins Xenco, Midland

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

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

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

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

# Method Summary

Client: WSP USA Inc. Job ID: 890-395-1
Project/Site: Ross Draw 25 N Battery SDG: Spill Date 01/07/2021

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

**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:**

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

# Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-395-1
SDG: Spill Date 01/07/2021

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 890-395-1 | SW04 | Solid | 03/18/21 08:56 | 03/18/21 16:53 | |
| 890-395-2 | SW05 | Solid | 03/18/21 09:01 | 03/18/21 16:53 | |
| 890-395-3 | SW06 | Solid | 03/18/21 09:07 | 03/18/21 16:53 | |
| 890-395-4 | SW07 | Solid | 03/18/21 09:12 | 03/18/21 16:53 | |
| 890-395-5 | FS10 | Solid | 03/18/21 10:01 | 03/18/21 16:53 | |
| 890-395-6 | FS11 | Solid | 03/18/21 10:05 | 03/18/21 16:53 | |
| 890-395-7 | FS12 | Solid | 03/18/21 10:09 | 03/18/21 16:53 | |
| 890-395-8 | FS13 | Solid | 03/18/21 10:15 | 03/18/21 16:53 | |
| 890-395-9 | FS14 | Solid | 03/18/21 10:19 | 03/18/21 16:53 | |
| 890-395-10 | FS15 | Solid | 03/18/21 10:24 | 03/18/21 16:53 | |
| 890-395-11 | FS17 | Solid | 03/18/21 10:41 | 03/18/21 16:53 | |
| 890-395-12 | FS18 | Solid | 03/18/21 10:46 | 03/18/21 16:53 | |
| 890-395-13 | FS19 | Solid | 03/18/21 10:50 | 03/18/21 16:53 | |
| 890-395-14 | FS20 | Solid | 03/18/21 11:05 | 03/18/21 16:53 | |
| 890-395-15 | FS21 | Solid | 03/18/21 11:09 | 03/18/21 16:53 | |
| 890-395-16 | FS22 | Solid | 03/18/21 11:14 | 03/18/21 16:53 | |
| 890-395-17 | BH01 | Solid | 03/18/21 12:20 | 03/18/21 16:53 | |
| 890-395-18 | BH01A | Solid | 03/18/21 12:26 | 03/18/21 16:53 | |
| 890-395-19 | FS16 | Solid | 03/18/21 13:35 | 03/18/21 16:53 | |

# Chain of Custody

XENCO LABORATORIES

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

www.xenco.com Page 1 of 2

**Work Order No:** _____

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 W. Mermod St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | Jeremy.Hill@wsp.com, Dan.Moir@wsp.com |

**Work Order Comments**

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Ross Draw 25 N Battery (GTB) | Turn Around | |
| Project Number: | TE01921016 | Routine | ☑ |
| P.O. Number: | Spill date 1-7-21 | Rush: | |
| Sampler's Name: | Jeremy Hill | Due Date: | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes / No | Wet Ice: | Yes / No | |
| Temperature (°C): | 5.8 / 5.6 | Thermometer ID | | |
| Received Intact: | Yes / No | | | |
| Cooler Custody Seals: | Yes / No / N/A | Correction Factor: | -0.3 | |
| Sample Custody Seals: | Yes / No / N/A | Total Containers: | | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| SW04 | S | 3/18/21 | 0856 | 0-1' | 1 | X | X | X | Composite |
| SW05 | | | 0901 | 0-1' | | | | | |
| SW06 | | | 0907 | 0-1' | | | | | |
| SW07 | | | 0912 | 0-1' | | | | | |
| FS10 | | | 1001 | 2.0' | | | | | |
| FS11 | | | 1005 | | | | | | |
| FS12 | | | 1009 | | | | | | |
| FS13 | | | 1015 | | | | | | |
| FS14 | | | 1019 | | | | | | |
| FS15 | | | 1024 | | | | | | |

890-395 Chain of Custody

**Work Order Notes**

CC: 105665100
AFE: 30-015-45595
Inc. WAN 2101333695

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

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

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



| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | | | 3.15.21 1653 | | | |
| 3 | | | | 4 | | |
| 5 | | | | 6 | | |

Revised Date 051418 Rev. 2018.1

# Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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





| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 W. Mermod St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | Jeremy.Hill@wsp.com, Dan.Moir@wsp.com |

**Work Order Comments**

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Ross Draw 25 N Battery | Turn Around | |
| Project Number: | TE01892 1016 | Routine | ☑ |
| P.O. Number: | Spill date 1-7-21 | Rush: | |
| Sampler's Name: | Jeremy Hill | Due Date: | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No | |
| Temperature (°C): | | Thermometer ID | | |
| Received Intact: | Yes No | See Tq | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | | |
| Sample Custody Seals: | Yes No N/A | Total Containers: | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| FS17 | S | 3/18/21 | 1041 | 2.0' | 1 | X | X | X | Composite |
| FS18 | | | 1046 | | | | | | |
| FS19 | | | 1050 | | | | | | |
| FS20 | | | 1105 | | | | | | |
| FS21 | | | 1109 | | | | | | |
| FS22 | | | 1114 | | | | | | |
| BH01 | | | 1220 | 1.0' | | | | | discrete |
| BH01A | | | 1226 | 3.0' | | | | | discrete |
| FS16 | | | 1335 | 3.0' | | | | | Composite |

**ANALYSIS REQUEST**

**Work Order Notes**

CC
1056651001
AFE
30-015-45595
Inv
WA0P2101333095

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

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

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



| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | | | 3.18.21 1653 | | | |
| 3 | | | | 4 | | |
| 5 | | | | 6 | | |

**Eurofins Xenco, Carlsbad**
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler | Lab PM: Kramer, Jessica | Carrier Tracking No(s): | COC No: 890-117 1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: jessica kramer@eurofinset.com | State of Origin: New Mexico | Page: Page 1 of 2 |
| Company: Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas | | Job #: 890-395-1 |
| Address: 1211 W Florida Ave, , | Due Date Requested: 3/25/2021 | | | |
| City: Midland | TAT Requested (days): | | | |
| State, Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email | WO #: | | | |
| Project Name: Ross Draw 25 N Battery | Project #: 89000004 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes**

| | |
|---|---|
| A HCL | M - Hexane |
| B - NaOH | N None |
| C Zn Acetate | O - AsNaO2 |
| D Nitric Acid | P - Na2O4S |
| E NaHSO4 | Q Na2SO3 |
| F MeOH | R Na2S2O3 |
| G Amchlor | S - H2SO4 |
| H - Ascorbic Acid | T TSP Dodecahydrate |
| I Ice | U - Acetone |
| J DI Water | V MCAA |
| K EDTA | W - pH 4-5 |
| L EDA | Z other (specify) |

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8016MOD_NM/8016NM_S_Prep Full TPH | 300_ORGFM_28D/DI_LEACH Chloride | 8021B/5035FP_Calc BTEX | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| SW04 (890-395-1) | 3/18/21 | 08 56 Mountain | | Solid | | | X | X | X | 1 | |
| SW05 (890-395-2) | 3/18/21 | 09 01 Mountain | | Solid | | | X | X | X | 1 | |
| SW06 (890-395-3) | 3/18/21 | 09 07 Mountain | | Solid | | | X | X | X | 1 | |
| SW07 (890-395-4) | 3/18/21 | 09 12 Mountain | | Solid | | | X | X | X | 1 | |
| FS10 (890-395-5) | 3/18/21 | 10 01 Mountain | | Solid | | | X | X | X | 1 | |
| FS11 (890-395-6) | 3/18/21 | 10 05 Mountain | | Solid | | | X | X | X | 1 | |
| FS12 (890-395-7) | 3/18/21 | 10 09 Mountain | | Solid | | | X | X | X | 1 | |
| FS13 (890-395-8) | 3/18/21 | 10 15 Mountain | | Solid | | | X | X | X | 1 | |
| FS14 (890-395-9) | 3/18/21 | 10 19 Mountain | | Solid | | | X | X | X | 1 | |

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon 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.

| ***Possible Hazard Identification*** | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank. 2 | Special Instructions/QC Requirements. |

| Empty Kit Relinquished by | Date | Time | Method of Shipment: |
|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Relinquished by: Joe Cruz 5.19.21 | Date/Time: | Company | Received by: | Date/Time: 3/19/21 12:00PM | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks. |
|---|---|---|

Ver: 11/01/2020

**Eurofins Xenco, Carlsbad**
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Kramer, Jessica | Carrier Tracking No(s): | COC No: 890-118 1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: jessica kramer@eurofinset.com | State of Origin: New Mexico | Page: Page 1 of 1 |
| Company: Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana NELAP - Texas | | Job #: 890-395-1 |
| Address: 1211 W Florida Ave, | Due Date Requested: 3/25/2021 | | | |
| City: Midland | TAT Requested (days): | | | |
| State Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email | WO #: | | | |
| Project Name: Ross Draw 25 N Battery | Project #: 89000004 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes**

| | |
|---|---|
| A HCL | M Hexane |
| B - NaOH | N None |
| C Zn Acetate | O - AsNaO2 |
| D Nitric Acid | P - Na2O4S |
| E NaHSO4 | Q - Na2SO3 |
| F - MeOH | R Na2S2O3 |
| G Amchlor | S - H2SO4 |
| H Ascorbic Acid | T TSP Dodecahydrate |
| I Ice | U - Acetone |
| J - DI Water | V MCAA |
| K EDTA | W - pH 4-5 |
| L EDA | Z other (specify) |

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8015MOD_NM/8015NM_S_Prep Full TPH | 300_ORGFM_28D/DI_LEACH Chloride | 8021B/5035FP_Calc BTEX | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| FS18 (890-395-12) | 3/18/21 | 10 46 Mountain | | Solid | | | X | X | X | 1 | |

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon 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.

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2 | Special Instructions/QC Requirements |

| Empty Kit Relinquished by | Date | Time | Method of Shipment |
|---|---|---|---|
| | | | |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Cloe Cuff 3.9.21 | Date/Time: | Company | Received by: | Date/Time: 3/9/21 12:00 pm | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks. |
|---|---|---|
| | | |

Ver: 11/01/2020

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-395-1
SDG Number: Spill Date 01/07/2021

**Login Number: 395**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

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

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-395-1
SDG Number: Spill Date 01/07/2021

**Login Number: 395**
**List Number: 2**
**Creator: Copeland, Tatiana**

**List Source: Eurofins Midland**
**List Creation: 03/19/21 12:24 PM**

| 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 | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 890-404-1
Laboratory Sample Delivery Group: TE012921016
Client Project/Site: Ross Draw 25 N Battery

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

Attn: Dan Moir

*Authorized for release by:*
*4/2/2021 2:53:33 PM*

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

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Laboratory Job ID: 890-404-1
SDG: TE012921016

# Table of Contents

# Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Qualifiers

### GC VOA

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

### GC Semi VOA

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

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

## Job ID: 890-404-1

### Laboratory: Eurofins Xenco, Carlsbad

**Narrative**

**Job Narrative**
**890-404-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 3/22/2021 11:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8º C.

**Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS23 (890-404-1), FS24 (890-404-2), SW08 (890-404-3), SW09 (890-404-4) and FS25 (890-404-5).

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

## Client Sample ID: FS23

**Lab Sample ID: 890-404-1**
**Matrix: Solid**
**Date Collected: 03/22/21 08:27**
**Date Received: 03/22/21 11:25**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 20:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 20:20* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 20:58 | 1 |
| Total TPH | <50.1 | U | 50.1 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 20:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 20:58 | 1 |
| OII Range Organics (Over C28-C36) | <50.1 | U | 50.1 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 20:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *101* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 20:58* | *1* |
| *o-Terphenyl* | *92* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 20:58* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1820** | | 25.3 | | mg/Kg | | | 04/02/21 00:00 | 5 |

## Client Sample ID: FS24

**Lab Sample ID: 890-404-2**
**Matrix: Solid**
**Date Collected: 03/22/21 08:31**
**Date Received: 03/22/21 11:25**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 20:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 20:41* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 20:41* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:19 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:19 | 1 |

Eurofins Xenco, Carlsbad

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS24 Lab Sample ID: 890-404-2

**Date Collected: 03/22/21 08:31** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:19 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *101* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 21:19* | *1* |
| *o-Terphenyl* | *96* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 21:19* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **2250** | | 25.0 | | mg/Kg | | | 04/02/21 00:05 | 5 |

## Client Sample ID: SW08 Lab Sample ID: 890-404-3

**Date Collected: 03/22/21 08:36** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *113* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 21:01* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 21:01* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:40 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:40 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:40 | 1 |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 21:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *101* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 21:40* | *1* |
| *o-Terphenyl* | *95* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 21:40* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **678** | | 25.0 | | mg/Kg | | | 04/02/21 00:10 | 5 |

# Client Sample Results

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: SW09 Lab Sample ID: 890-404-4

**Date Collected: 03/22/21 08:43** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 21:21* | *1* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 21:21* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:01 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:01 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:01 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *101* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 22:01* | *1* |
| *o-Terphenyl* | *95* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 22:01* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **368** | | 25.0 | | mg/Kg | | | 04/02/21 00:15 | 5 |

## Client Sample ID: FS25 Lab Sample ID: 890-404-5

**Date Collected: 03/22/21 08:49** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 21:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 21:42* | *1* |
| *1,4-Difluorobenzene (Surr)* | *102* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 21:42* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:22 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:22 | 1 |

Eurofins Xenco, Carlsbad

# Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

## Client Sample ID: FS25

**Date Collected: 03/22/21 08:49**
**Date Received: 03/22/21 11:25**

## Lab Sample ID: 890-404-5

**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:22 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 03/31/21 13:39 | 04/01/21 22:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *98* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 22:22* | *1* |
| *o-Terphenyl* | *94* | | *70 - 130* | *03/31/21 13:39* | *04/01/21 22:22* | *1* |

### Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **109** | | 4.98 | | mg/Kg | | | 04/02/21 00:30 | 1 |

# Surrogate Summary

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## 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) |
| 890-404-1 | FS23 | 111 | 102 |
| 890-404-1 MS | FS23 | 105 | 97 |
| 890-404-1 MSD | FS23 | 102 | 100 |
| 890-404-2 | FS24 | 111 | 98 |
| 890-404-3 | SW08 | 113 | 101 |
| 890-404-4 | SW09 | 117 | 101 |
| 890-404-5 | FS25 | 112 | 102 |
| LCS 880-1098/1-A | Lab Control Sample | 104 | 98 |
| LCSD 880-1098/2-A | Lab Control Sample Dup | 103 | 100 |
| MB 880-1098/5-A | Method Blank | 103 | 95 |

**Surrogate Legend**

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

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

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

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| | | 1CO1 | OTPH1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-404-1 | FS23 | 101 | 92 |
| 890-404-2 | FS24 | 101 | 96 |
| 890-404-3 | SW08 | 101 | 95 |
| 890-404-4 | SW09 | 101 | 95 |
| 890-404-5 | FS25 | 98 | 94 |
| LCS 880-1108/2-A | Lab Control Sample | 107 | 9 S1- |
| LCSD 880-1108/3-A | Lab Control Sample Dup | 107 | 10 S1- |
| MB 880-1108/1-A | Method Blank | 110 | 106 |

**Surrogate Legend**

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

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

**Lab Sample ID: MB 880-1098/5-A**
**Matrix: Solid**
**Analysis Batch: 1205**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 1098**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 03/31/21 10:45 | 04/01/21 19:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 19:51* | *1* |
| *1,4-Difluorobenzene (Surr)* | *95* | | *70 - 130* | *03/31/21 10:45* | *04/01/21 19:51* | *1* |

**Lab Sample ID: LCS 880-1098/1-A**
**Matrix: Solid**
**Analysis Batch: 1205**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 1098**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09595 | | mg/Kg | | 96 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1086 | | mg/Kg | | 109 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.1018 | | mg/Kg | | 102 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2208 | | mg/Kg | | 110 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1079 | | mg/Kg | | 108 | 70 - 130 | | |

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

**Lab Sample ID: LCSD 880-1098/2-A**
**Matrix: Solid**
**Analysis Batch: 1205**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 1098**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1012 | | mg/Kg | | 101 | 70 - 130 | 5 | 35 |
| Ethylbenzene | | | 0.100 | 0.1104 | | mg/Kg | | 110 | 70 - 130 | 2 | 35 |
| Toluene | | | 0.100 | 0.1038 | | mg/Kg | | 104 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2236 | | mg/Kg | | 112 | 70 - 130 | 1 | 35 |
| o-Xylene | | | 0.100 | 0.1099 | | mg/Kg | | 110 | 70 - 130 | 2 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: 890-404-1 MS**
**Matrix: Solid**
**Analysis Batch: 1205**

**Client Sample ID: FS23**
**Prep Type: Total/NA**
**Prep Batch: 1098**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.0998 | 0.08607 | | mg/Kg | | 86 | 70 - 130 | | |

# QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

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

**Lab Sample ID: 890-404-1 MS**
**Matrix: Solid**
**Analysis Batch: 1205**

**Client Sample ID: FS23**
**Prep Type: Total/NA**
**Prep Batch: 1098**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00200 | U | 0.0998 | 0.09436 | | mg/Kg | | 95 | 70 - 130 |
| Toluene | <0.00200 | U | 0.0998 | 0.08976 | | mg/Kg | | 90 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.200 | 0.1927 | | mg/Kg | | 97 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.0998 | 0.09401 | | mg/Kg | | 94 | 70 - 130 |

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

**Lab Sample ID: 890-404-1 MSD**
**Matrix: Solid**
**Analysis Batch: 1205**

**Client Sample ID: FS23**
**Prep Type: Total/NA**
**Prep Batch: 1098**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.0996 | 0.1034 | | mg/Kg | | 104 | 70 - 130 | 18 | 35 |
| Ethylbenzene | <0.00200 | U | 0.0996 | 0.1084 | | mg/Kg | | 109 | 70 - 130 | 14 | 35 |
| Toluene | <0.00200 | U | 0.0996 | 0.1055 | | mg/Kg | | 106 | 70 - 130 | 16 | 35 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.199 | 0.2203 | | mg/Kg | | 111 | 70 - 130 | 13 | 35 |
| o-Xylene | <0.00200 | U | 0.0996 | 0.1091 | | mg/Kg | | 110 | 70 - 130 | 15 | 35 |

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

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

**Lab Sample ID: MB 880-1108/1-A**
**Matrix: Solid**
**Analysis Batch: 1138**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 1108**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 03/31/21 13:38 | 04/01/21 10:44 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 03/31/21 13:38 | 04/01/21 10:44 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 03/31/21 13:38 | 04/01/21 10:44 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 03/31/21 13:38 | 04/01/21 10:44 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *110* | | *70 - 130* | *03/31/21 13:38* | *04/01/21 10:44* | *1* |
| *o-Terphenyl* | *106* | | *70 - 130* | *03/31/21 13:38* | *04/01/21 10:44* | *1* |

**Lab Sample ID: LCS 880-1108/2-A**
**Matrix: Solid**
**Analysis Batch: 1138**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 1108**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1126 | | mg/Kg | | 113 | 70 - 130 |

# QC Sample Results

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

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

**Lab Sample ID: LCS 880-1108/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 1138** **Prep Batch: 1108**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | | | 1000 | 948.6 | | mg/Kg | | 95 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *107* | | *70 - 130* |
| *o-Terphenyl* | *9* | *S1-* | *70 - 130* |

**Lab Sample ID: LCSD 880-1108/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 1138** **Prep Batch: 1108**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1101 | | mg/Kg | | 110 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1004 | | mg/Kg | | 100 | 70 - 130 | 6 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *107* | | *70 - 130* |
| *o-Terphenyl* | *10* | *S1-* | *70 - 130* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-1165/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 1213**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 04/01/21 23:30 | 1 |

**Lab Sample ID: LCS 880-1165/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 1213**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 241.5 | | mg/Kg | | 97 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-1165/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Soluble**
**Analysis Batch: 1213**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 241.7 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## GC VOA

### Prep Batch: 1098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Total/NA | Solid | 5035 | |
| 890-404-2 | FS24 | Total/NA | Solid | 5035 | |
| 890-404-3 | SW08 | Total/NA | Solid | 5035 | |
| 890-404-4 | SW09 | Total/NA | Solid | 5035 | |
| 890-404-5 | FS25 | Total/NA | Solid | 5035 | |
| MB 880-1098/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-1098/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-1098/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-404-1 MS | FS23 | Total/NA | Solid | 5035 | |
| 890-404-1 MSD | FS23 | Total/NA | Solid | 5035 | |

### Analysis Batch: 1205

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Total/NA | Solid | 8021B | 1098 |
| 890-404-2 | FS24 | Total/NA | Solid | 8021B | 1098 |
| 890-404-3 | SW08 | Total/NA | Solid | 8021B | 1098 |
| 890-404-4 | SW09 | Total/NA | Solid | 8021B | 1098 |
| 890-404-5 | FS25 | Total/NA | Solid | 8021B | 1098 |
| MB 880-1098/5-A | Method Blank | Total/NA | Solid | 8021B | 1098 |
| LCS 880-1098/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 1098 |
| LCSD 880-1098/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 1098 |
| 890-404-1 MS | FS23 | Total/NA | Solid | 8021B | 1098 |
| 890-404-1 MSD | FS23 | Total/NA | Solid | 8021B | 1098 |

## GC Semi VOA

### Prep Batch: 1108

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Total/NA | Solid | 8015NM Prep | |
| 890-404-2 | FS24 | Total/NA | Solid | 8015NM Prep | |
| 890-404-3 | SW08 | Total/NA | Solid | 8015NM Prep | |
| 890-404-4 | SW09 | Total/NA | Solid | 8015NM Prep | |
| 890-404-5 | FS25 | Total/NA | Solid | 8015NM Prep | |
| MB 880-1108/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-1108/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-1108/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 1138

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Total/NA | Solid | 8015B NM | 1108 |
| 890-404-2 | FS24 | Total/NA | Solid | 8015B NM | 1108 |
| 890-404-3 | SW08 | Total/NA | Solid | 8015B NM | 1108 |
| 890-404-4 | SW09 | Total/NA | Solid | 8015B NM | 1108 |
| 890-404-5 | FS25 | Total/NA | Solid | 8015B NM | 1108 |
| MB 880-1108/1-A | Method Blank | Total/NA | Solid | 8015B NM | 1108 |
| LCS 880-1108/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 1108 |
| LCSD 880-1108/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 1108 |

# QC Association Summary

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## HPLC/IC

### Leach Batch: 1165

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Soluble | Solid | DI Leach | |
| 890-404-2 | FS24 | Soluble | Solid | DI Leach | |
| 890-404-3 | SW08 | Soluble | Solid | DI Leach | |
| 890-404-4 | SW09 | Soluble | Solid | DI Leach | |
| 890-404-5 | FS25 | Soluble | Solid | DI Leach | |
| MB 880-1165/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-1165/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-1165/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

### Analysis Batch: 1213

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Soluble | Solid | 300.0 | 1165 |
| 890-404-2 | FS24 | Soluble | Solid | 300.0 | 1165 |
| 890-404-3 | SW08 | Soluble | Solid | 300.0 | 1165 |
| 890-404-4 | SW09 | Soluble | Solid | 300.0 | 1165 |
| 890-404-5 | FS25 | Soluble | Solid | 300.0 | 1165 |
| MB 880-1165/1-A | Method Blank | Soluble | Solid | 300.0 | 1165 |
| LCS 880-1165/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 1165 |
| LCSD 880-1165/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 1165 |

# Lab Chronicle

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Client Sample ID: FS23 Lab Sample ID: 890-404-1

**Date Collected: 03/22/21 08:27** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1098 | 03/31/21 10:45 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1205 | 04/01/21 20:20 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1108 | 03/31/21 13:39 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1138 | 04/01/21 20:58 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1165 | 04/01/21 11:52 | SC | XM |
| Soluble | Analysis | 300.0 | | 5 | 1213 | 04/02/21 00:00 | CH | XM |

## Client Sample ID: FS24 Lab Sample ID: 890-404-2

**Date Collected: 03/22/21 08:31** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1098 | 03/31/21 10:45 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1205 | 04/01/21 20:41 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1108 | 03/31/21 13:39 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1138 | 04/01/21 21:19 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1165 | 04/01/21 11:52 | SC | XM |
| Soluble | Analysis | 300.0 | | 5 | 1213 | 04/02/21 00:05 | CH | XM |

## Client Sample ID: SW08 Lab Sample ID: 890-404-3

**Date Collected: 03/22/21 08:36** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1098 | 03/31/21 10:45 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1205 | 04/01/21 21:01 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1108 | 03/31/21 13:39 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1138 | 04/01/21 21:40 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1165 | 04/01/21 11:52 | SC | XM |
| Soluble | Analysis | 300.0 | | 5 | 1213 | 04/02/21 00:10 | CH | XM |

## Client Sample ID: SW09 Lab Sample ID: 890-404-4

**Date Collected: 03/22/21 08:43** **Matrix: Solid**
**Date Received: 03/22/21 11:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1098 | 03/31/21 10:45 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1205 | 04/01/21 21:21 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1108 | 03/31/21 13:39 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1138 | 04/01/21 22:01 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1165 | 04/01/21 11:52 | SC | XM |
| Soluble | Analysis | 300.0 | | 5 | 1213 | 04/02/21 00:15 | CH | XM |

# Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

## Client Sample ID: FS25

**Date Collected: 03/22/21 08:49**
**Date Received: 03/22/21 11:25**

## Lab Sample ID: 890-404-5

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 1098 | 03/31/21 10:45 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1205 | 04/01/21 21:42 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1108 | 03/31/21 13:39 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1138 | 04/01/21 22:22 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1165 | 04/01/21 11:52 | SC | XM |
| Soluble | Analysis | 300.0 | | 1 | 1213 | 04/02/21 00:30 | CH | XM |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

## Laboratory: Eurofins Xenco, Midland

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

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

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

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

# Method Summary

Client: WSP USA Inc. Job ID: 890-404-1
Project/Site: Ross Draw 25 N Battery SDG: TE012921016

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

**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:**

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

# Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N Battery

Job ID: 890-404-1
SDG: TE012921016

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 890-404-1 | FS23 | Solid | 03/22/21 08:27 | 03/22/21 11:25 | |
| 890-404-2 | FS24 | Solid | 03/22/21 08:31 | 03/22/21 11:25 | |
| 890-404-3 | SW08 | Solid | 03/22/21 08:36 | 03/22/21 11:25 | |
| 890-404-4 | SW09 | Solid | 03/22/21 08:43 | 03/22/21 11:25 | |
| 890-404-5 | FS25 | Solid | 03/22/21 08:49 | 03/22/21 11:25 | |

# Chain of Custody

Work Order No: 404

XENCO LABORATORIES

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

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | WSP USA | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 W. Mermod St. |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | Jeremy.Hill@wsp.com, Dan.Moir@wsp.com |

**Work Order Comments**

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Ross Draw 35N Battery | Turn Around | |
| Project Number: | TE01892101616 | Routine | ☑ |
| P.O. Number: | Spill date 1/7/21 | Rush: | |
| Sampler's Name: | Jeremy Hill | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No |
| Temperature (°C): | 1.0 / 0.8 | Thermometer ID | IR#1-007 |
| Received Intact: | Yes No | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes No N/A | Total Containers: | 5 |

ANALYSIS REQUEST

890-404 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| FS23 | S | 3/22/21 | 0827 | 2.0 | 1 | X | X | X | Composite |
| FS24 | | | 0831 | 2.0 | | | | | |
| SW08 | | | 0836 | 0-2 | | | | | |
| SW09 | | | 0843 | 0-2 | | | | | |
| FS25 | | | 0849 | 2.0 | | | | | |

**Work Order Notes**

CC 1056651001
API 30-015-45595
Inc NAPP2101733395
Note: Samples labeled "Ross Draw 35N CTB"

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

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

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



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 3.22.21 1124 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 051418 Rev. 2018.1

**Eurofins Xenco, Carlsbad**
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Kramer, Jessica | Carrier Tracking No(s): | COC No: 890-121 1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: jessica.kramer@eurofinset.com | State of Origin: New Mexico | Page: Page 1 of 1 |
| Company: Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas | | Job #: 890-404-1 |
| Address: 1211 W Florida Ave | Due Date Requested: 3/29/2021 | | | |
| City: Midland | TAT Requested (days): | | | |
| State, Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO #: | | | |
| Email | WO #: | | | |
| Project Name: Ross Draw 25 N Battery | Project #: 89000004 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes**

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K - EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Z - other (specify)

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8016MOD_NM/8015NM_S_Prep Full TPH | 300_ORGFM_28D/DI_LEACH Chloride | 8021B/5036FP_Calc BTEX | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| FS23 (890-404-1) | 3/22/21 | 08 27 Mountain | | Solid | | | X | X | X | 1 | |
| FS24 (890-404-2) | 3/22/21 | 08 31 Mountain | | Solid | | | X | X | X | 1 | |
| SW08 (890-404-3) | 3/22/21 | 08 36 Mountain | | Solid | | | X | X | X | 1 | |
| SW09 (890-404-4) | 3/22/21 | 08 43 Mountain | | Solid | | | X | X | X | 1 | |
| FS25 (890-404-5) | 3/22/21 | 08 49 Mountain | | Solid | | | X | X | X | 1 | |

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon 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.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested I II III IV, Other (specify) Primary Deliverable Rank 2 | Special Instructions/QC Requirements. |

| Empty Kit Relinquished by | Date | Time | Method of Shipment: |
|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Relinquished by: Cloe Cuffo 3-23-21 | Date/Time: | Company | Received by: | Date/Time: 3/23/21 3:00 PM | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |

| Custody Seals Intact. ∆ Yes ∆ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks. |
|---|---|---|

Ver: 11/01/2020

**Eurofins Xenco, Carlsbad**
1089 N Canal St.
Carlsbad, NM 88220
Phone. 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler | Lab PM: Simmons, Debbie | Carrier Tracking No(s). | COC No: 890-121 3 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone | E-Mail: debbie simmons@eurofinset.com | State of Origin: New Mexico | Page: Page 3 of 3 |
| Company: Eurofins Xenco | | Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas | | Job #: 890-406-1 |
| Address: 1211 W Florida Ave, , | Due Date Requested: 3/29/2021 | | | |
| City: Midland | TAT Requested (days): | | | |
| State, Zip: TX, 79701 | | | | |
| Phone: 432-704-5440(Tel) | PO # | | | |
| Email | WO # | | | |
| Project Name: Livingston Ridge SWD System | Project #: 88000221 | | | |
| Site: | SSOW# | | | |

**Analysis Requested**

**Preservation Codes**

A - HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M - Hexane, N None, O - AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8021B/5035LP_Calc BTEX | 8015MOD_NM/8015NM_S_Prep Full TPH | 300_ORGFM_28D/DI_LEACH Chloride | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| TP-22-5 (890-406-19) | 3/22/21 | 13 00 Mountain | | Solid | | | X | X | X | 1 | |
| TP-24-5 (890-406-21) | 3/22/21 | 13 20 Mountain | | Solid | | | X | X | X | 1 | |
| TP-24-2 (890-406-22) | 3/22/21 | 13 30 Mountain | | Solid | | | X | X | X | 1 | |
| TP-29-5 (890-406-23) | 3/22/21 | 13 40 Mountain | | Solid | | | X | X | X | 1 | |
| TP-27-5 (890-406-25) | 3/22/21 | 14 00 Mountain | | Solid | | | X | X | X | 1 | |
| TP-27-2 (890-406-26) | 3/22/21 | 14 10 Mountain | | Solid | | | X | X | X | 1 | |
| TP-21-5 (890-406-27) | 3/22/21 | 14 20 Mountain | | Solid | | | X | X | X | 1 | |
| TP-21-2 (890-406-28) | 3/22/21 | 14 30 Mountain | | Solid | | | X | X | X | 1 | |
| | | | | | | | | | | | |

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon 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

***Possible Hazard Identification***
*Unconfirmed*

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested I II, III IV Other (specify) Primary Deliverable Rank. 2

Special Instructions/QC Requirements

| Empty Kit Relinquished by | Date | Time | Method of Shipment. |
|---|---|---|---|

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| Joe Carlton 3-23-21 | | | | 3/23/21 3:00 PM | |
| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |

| Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks |
|---|---|---|

Ver 11/01/2020

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-404-1
SDG Number: TE012921016

**Login Number: 404**
**List Number: 1**
**Creator: Clifton, Cloe**

**List Source: Eurofins Carlsbad**

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

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-404-1
SDG Number: TE012921016

**Login Number: 404**
**List Number: 2**
**Creator: Copeland, Tatiana**

**List Source: Eurofins Midland**
**List Creation: 03/23/21 03:10 PM**

| 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 | |

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

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

CONDITIONS

Action 30852

## CONDITIONS

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>30852 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| chensley | XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. | 7/9/2021 |