

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    | NAPP2201444794 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

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

### Location of Release Source

Latitude 32.01937 Longitude -103.94214  
(NAD 83 in decimal degrees to 5 decimal places)

|                                   |                        |
|-----------------------------------|------------------------|
| Site Name Ross Draw 25 NW         | Site Type Tank Battery |
| Date Release Discovered 1/02/2022 | API# (if applicable)   |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| D           | 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)

|  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Crude Oil      | Volume Released (bbls) 88.40   | Volume Recovered (bbls) 88.00                            |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 32.10   | Volume Recovered (bbls) 32.00                            |
|  | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                  |


Cause of Release Corrosion caused a 2" welded nipple to release fluids both into containment and onto pad. All free fluids were recovered. A third-party contractor has been retained for remediation purposes.

|                |                |
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|  |  |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If YES, for what reason(s) does the responsible party consider this a major release?<br>A release equal to or greater than 25 barrels. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Yes, by Adrian Baker to ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD on Monday, January 3, 2022 4:21 PM via email. |  |

## Initial Response

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

|  |                              |
|--|------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.  |                              |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.  |                              |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.  |                              |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.  |                              |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br>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: Shelby G. Pennington   | Title: Environmental Manager |
| Signature:    | Date: 1/14/22                |
| email: shelby.g.pennington@exxonmobil.com  | Telephone: 281-723-9353      |
| <b>OCD Only</b>  |                              |
| Received by: NAPP2201444794  | Date: 1/14/2022              |

NAPP2201444794

|  |                                |         |
|--|--------------------------------|---------|
| <b>Location:</b>                         | <b>Ross Draw 25 NW Battery</b> |         |
| <b>Spill Date:</b>                       | <b>1/2/2022</b>                |         |
| <b>Area 1</b>                            |                                |         |
| Approximate Area =                       | 673.75                         | cu.ft.  |
| VOLUME OF LEAK                           |                                |         |
| Total Crude Oil =                        | 88.00                          | bbls    |
| Total Produced Water =                   | 32.00                          | bbls    |
| <b>Area 2</b>                            |                                |         |
| Approximate Area =                       | 636.00                         | sq. ft. |
| Average Saturation (or depth) of spill = | 1.75                           | inches  |
|  |                                |         |
| Average Porosity Factor =                | 0.03                           |         |
|  |                                |         |
| VOLUME OF LEAK                           |                                |         |
| Total Crude Oil =                        | 0.40                           | bbls    |
| Total Produced Water =                   | 0.10                           | bbls    |
|  |                                |         |
| <b>TOTAL VOLUME OF LEAK</b>              |                                |         |
| Total Crude Oil =                        | 88.40                          | bbls    |
| Total Produced Water =                   | 32.10                          | bbls    |
| <b>TOTAL VOLUME RECOVERED</b>            |                                |         |
| Total Crude Oil =                        | 88.00                          | bbls    |
| Total Produced Water =                   | 32.00                          | 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 72553

CONDITIONS

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>72553                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| rmarcus    | None      | 1/14/2022      |



|                |                |
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## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Garrett Green Title: Environmental CoordinatorSignature:  Date: 9/27/2022email: garrett.green@exxonmobil.com Telephone: (575)-200-0729**OCD Only**Received by: Jocelyn Harimon Date: 10/20/2022

|                |                |
|----------------|----------------|
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## Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 09/27/2022

email: Garrett.Green@ExxonMobil.com Telephone: 575-200-0729

### OCD Only

Received by: Jocelyn Harimon Date: 10/20/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 01/13/2023

Printed Name: Jocelyn Harimon Title: Environmental Specialist



September 27, 2022

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

**Re: Closure Request Addendum  
Ross Draw 25 NW Tank Battery  
Incident Number NAPP2201444794  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following Addendum to a Closure Request submitted on June 24, 2022 for a release at the Ross Draw 25 NW Tank Battery (Site; Figure 1). This Addendum provides an update to the delineation and excavation activities completed at the Site in response to the denial by the New Mexico Oil Conservation Division (NMOCD) of the previously submitted Closure Request. In the denial, NMOCD expressed concern the release was not horizontally delineated at a secondary containment wall. Based on previous delineation and excavation sampling activities and additional sampling results described below, XTO is requesting no further action (NFA) for Incident Number NAPP2201444794.

## BACKGROUND

On January 2, 2022, corrosion on a 2-inch welded nipple resulted in the release of approximately 88.4 barrels (bbls) of crude oil and approximately 32.10 bbls produced water into a lined secondary containment and onto the well pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 88 bbls of crude oil and 32 bbls of produced water were recovered. XTO reported the release to the NMOCD on January 3, 2022 and with a subsequent Release Notification Form C-141 (Form C-141) on January 14, 2022. The release was assigned Incident Number NAPP2201444794.

A Closure Request detailing site characterization and application of 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) assigned the following Closure Criteria:

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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants  
601 North Marienfeld Street | Midland, TX 79701 | [ensolum.com](http://ensolum.com)  
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843

Site assessment activities were conducted to assess for the presence or absence of impacts to soil resulting from the produced water and crude oil release. The liner was determined to be in good condition; however, Ensolum observed surficial staining in the release area outside the containment. As a result, excavation of stained soil was completed to a depth of 2 feet bgs across a 350 square foot area.

Laboratory analytical results for excavation confirmation samples indicated all concentrations of chemicals of concern (COC) were compliant with the Table 1 Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Additionally, the release was horizontally delineated to below the most stringent Table 1 Closure Criteria as indicated by three soil samples collected outside of the release footprint. Laboratory analytical results from the sampling activities are summarized in Table 1 and soil sample locations are depicted on Figures 2 and 3, which were presented in the original Closure Request. Because the excavation abutted the secondary containment wall and the liner inspection indicated the liner was not compromised, no sidewall or delineation samples were collected at the containment. On July 15, 2022, NMOCD denied the Closure Request for Incident Number NAPP2201444794 for the following reason:

- *"The closure request is denied. The release should be horizontally delineated on all sides, including up against the secondary containment wall. Please verify that the release did not go under the secondary containment."*

## ADDITIONAL DELINEATION ACTIVITIES

On August 3, 2022, Ensolum personnel returned to the Site to collect one additional horizontal confirmation soil sample against the secondary containment wall. Soil sample, SW03 was collected from the sidewall of the excavation from the ground surface to 2 feet bgs. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the sample by thoroughly mixing. The soil sample was placed directly into pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil sample was transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following COCs: 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. The soil sample location is depicted on Figure 3.

Laboratory analytical results for SW03 indicate all COC concentrations were compliant with Site Closure Criteria and provided horizontal delineation to below the most stringent Table 1 Closure Criteria. The soil sample analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix A.

## CLOSURE REQUEST

XTO requested NFA of Incident Number NAPP2201444794 on June 24, 2022 based on site assessment and remediation activities that followed requirements set forth in 19.15.29 NMAC. Additional assessment activities were completed at the Site to assess for the presence or absence of impacts to soil resulting from the January 2, 2022, crude oil and produced water release. Based on the laboratory analytical results of the newly collected confirmation sidewall sample SW03 and previously reported samples indicating the excavation is in compliance with the Site Closure Criteria and horizontal delineation soil samples providing additional data indicating compliance with the most stringent Table 1 Closure Criteria, XTO respectfully request NFA for Incident Number NAPP2201444794.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 496-1093 or [aager@ensolum.com](mailto:aager@ensolum.com).

Ross Draw 25 NW Tank Battery



Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink, appearing to read "Anita Thapalia".

Anita Thapalia, PG  
Project Geologist

A handwritten signature in black ink, appearing to read "Ashley L. Ager".

Ashley Ager, PG  
Program Director

cc: Garrett Green, XTO  
Bureau of Land Management

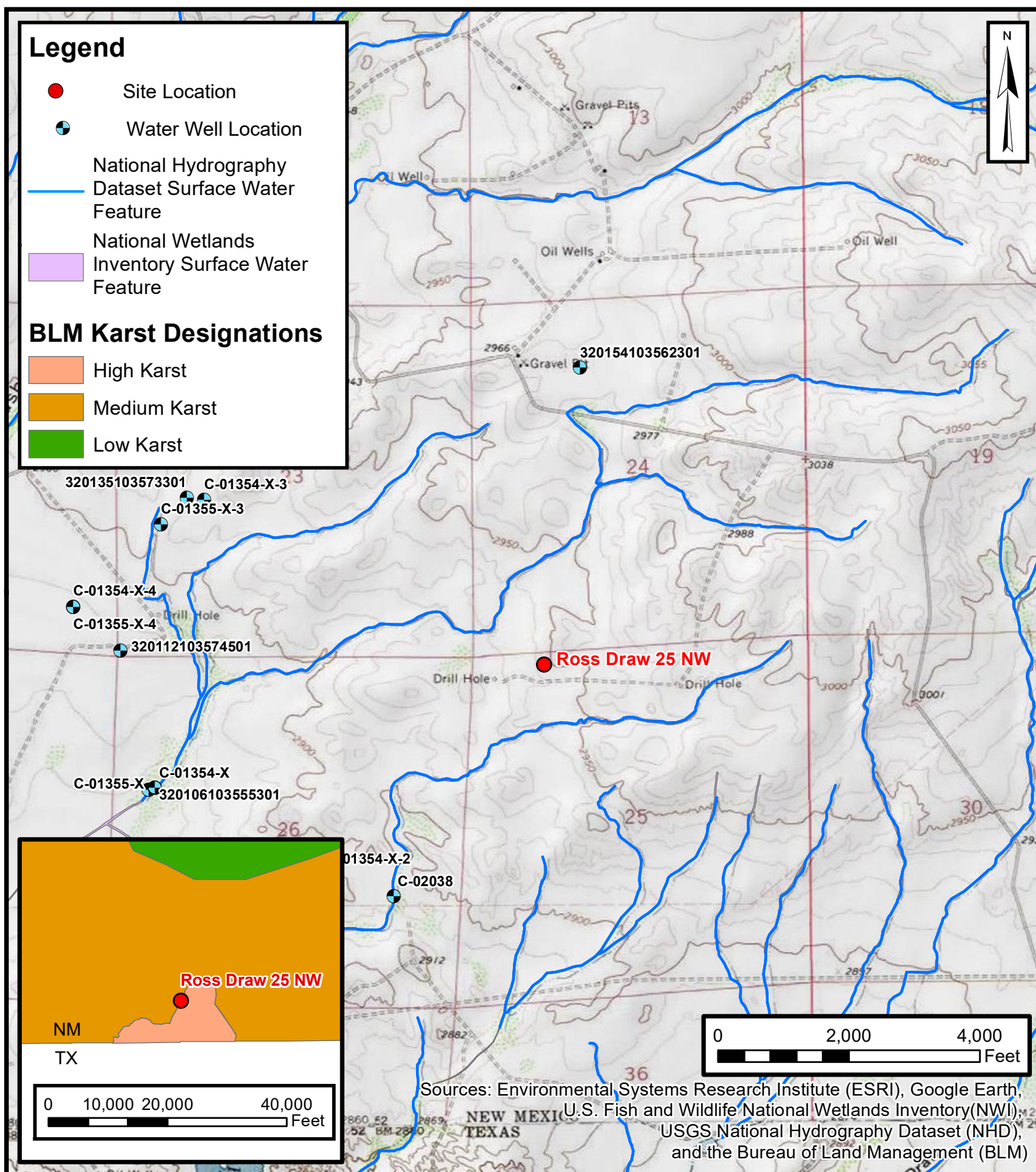
Appendices:

|            |                                   |
|------------|-----------------------------------|
| Figure 1   | Site Receptor Map                 |
| Figure 2   | Preliminary Soil Sample Locations |
| Figure 3   | Excavation Soil Sample Locations  |
| Table 1    | Soil Sample Analytical Results    |
| Appendix A | 2022 Laboratory Analytical Report |



FIGURES





## Site Receptor Map

XTO ENERGY, INC  
 Ross Draw 25 NW  
 NAPP2201444794  
 Unit D, Sec 25, T26S, R29E  
 Eddy County, New Mexico

FIGURE  
 1

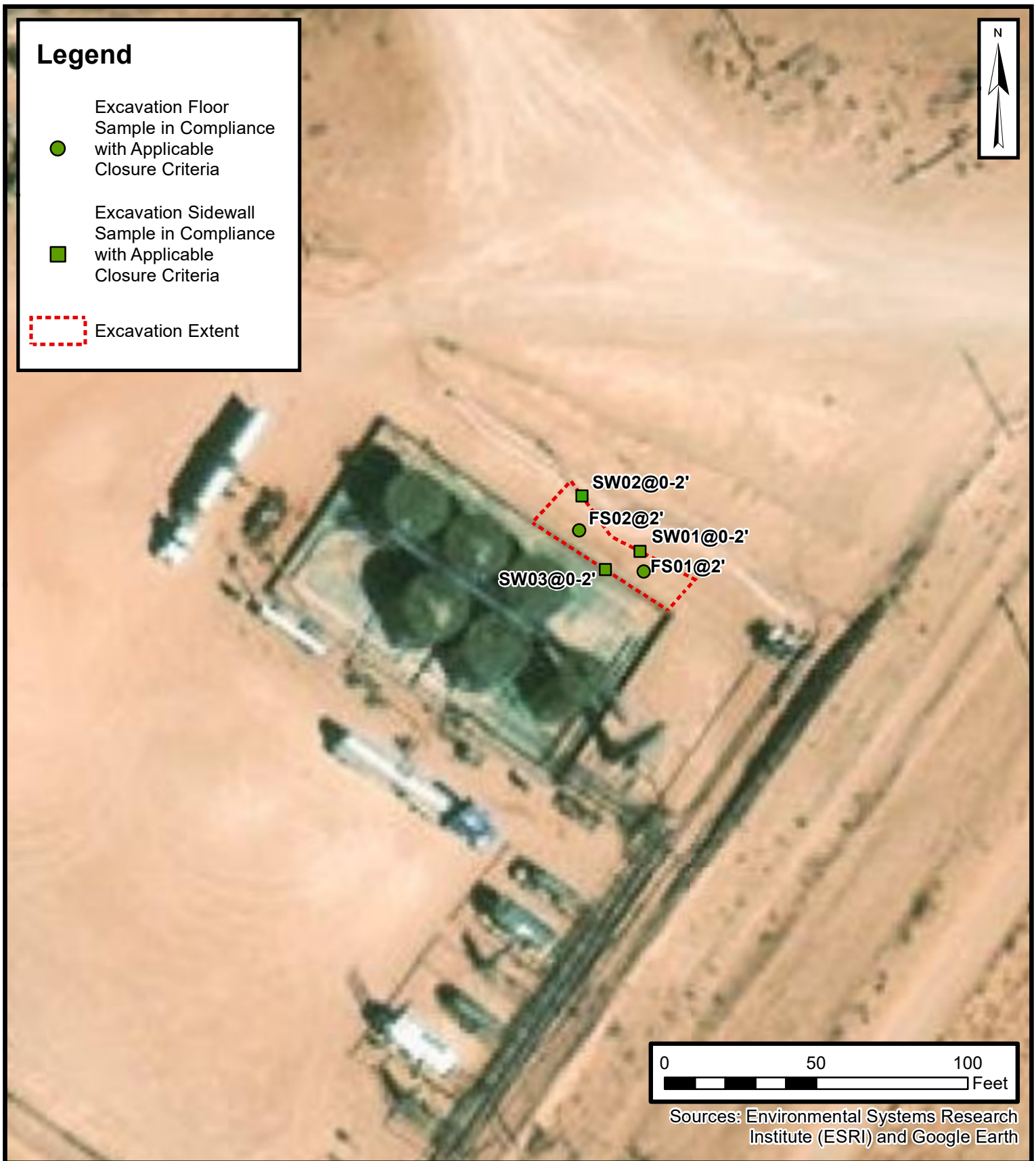




## Preliminary Soil Sample Locations

XTO ENERGY, INC  
Ross Draw 25 NW  
NAPP2201444794  
Unit D, Sec 25, T26S, R29E  
Eddy County, New Mexico

FIGURE  
**2**



## Excavation Soil Sample Locations

XTO ENERGY, INC  
Ross Draw 25 NW  
NAPP2201444794  
Unit D, Sec 25, T26S, R29E  
Eddy County, New Mexico

FIGURE  
**3**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Ross Draw 25 NW Tank Battery  
 XTO Energy, Inc.  
 Eddy County, New Mexico

| Sample I.D.   | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| <b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b> |             |                         | <b>10</b>       | <b>50</b>          | <b>NE</b>       | <b>NE</b>       | <b>NE</b>       | <b>1,000</b>    | <b>2,500</b>      | <b>10,000</b>    |
| <b>Preliminary Soil Samples</b>                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01  | 02/14/2022  | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | <b>10,400</b>    |
| SS02  | 02/14/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 51.3             |
| SS03  | 02/14/2022  | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 152              |
| SS04  | 02/14/2022  | 0.5                     | <0.00202        | <0.00404           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 46.1             |
| <b>Excavation Floor Samples</b>                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01  | 05/18/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 128              |
| FS02  | 05/18/2022  | 2                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 255              |
| <b>Excavation Sidewall Samples</b>                    |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SW01  | 05/18/2022  | 0 - 2                   | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 118              |
| SW02  | 05/18/2022  | 0 - 2                   | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 57.5             |
| SW03  | 08/03/2022  | 0 - 2                   | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 37.7             |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

2022 Laboratory

Analytical Reports

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## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1943-1

Laboratory SDG: 31403236.022.0129. task 19.02

Client Project/Site: Ross Draw 25 NM Battery

For:

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

Attn: Kalei Jennings

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

Authorized for release by:  
2/22/2022 3:42:24 PM

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

#### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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

Laboratory Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

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## Definitions/Glossary

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



## Case Narrative

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

**Job ID: 890-1943-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-1943-1****Receipt**

The sample was received on 2/15/2022 9:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS04 (890-1943-1) and (880-11299-A-1-J). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19793 and analytical batch 880-19796 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19555 and analytical batch 880-19569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-11287-A-38-E MS). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-19775 and analytical batch 880-19870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

Client Sample ID: SS04

Lab Sample ID: 890-1943-1

Date Collected: 02/14/22 12:10

Matrix: Solid

Date Received: 02/15/22 09:25

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:58 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:58 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:58 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:58 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:58 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 168       | S1+       | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:58 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 | mg/Kg |   |          | 02/22/22 12:09 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 02/17/22 13:29 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 19:37 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 19:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 19:37 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91        |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 19:37 | 1       |
| o-Terphenyl    | 95        |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 19:37 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 46.1   |           | 4.97 | mg/Kg |   |          | 02/18/22 23:00 | 1       |

Eurofins Carlsbad

## Surrogate Summary

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-11299-A-1-H MS                | Matrix Spike           | 144 S1+  | 81                |
| 880-11299-A-1-I MSD               | Matrix Spike Duplicate | 139 S1+  | 96                |
| 890-1943-1                        | SS04                   | 168 S1+  | 92                |
| LCS 880-19793/1-A                 | Lab Control Sample     | 115  | 89                |
| LCSD 880-19793/2-A                | Lab Control Sample Dup | 145 S1+  | 89                |
| MB 880-19708/5-A                  | Method Blank           | 102  | 77                |
| MB 880-19793/5-A                  | Method Blank           | 103  | 77                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-11287-A-38-E MS     | Matrix Spike           | 71   | 66 S1-            |
| 880-11287-A-38-F MSD    | Matrix Spike Duplicate | 84   | 77                |
| 890-1943-1              | SS04                   | 91   | 95                |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-19555/2-A       | Lab Control Sample     | 108  | 123               |
| LCSD 880-19555/3-A      | Lab Control Sample Dup | 102  | 118               |
| MB 880-19555/1-A        | Method Blank           | 82   | 91                |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

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

Lab Sample ID: MB 880-19708/5-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19708

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 07:56 | 1       |

Lab Sample ID: MB 880-19793/5-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:03 | 1       |

Lab Sample ID: LCS 880-19793/1-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.07587    |               | mg/Kg |   | 76   | 70 - 130     |
| Toluene             | 0.100       | 0.07526    |               | mg/Kg |   | 75   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.07693    |               | mg/Kg |   | 77   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1567     |               | mg/Kg |   | 78   | 70 - 130     |
| o-Xylene            | 0.100       | 0.07923    |               | mg/Kg |   | 79   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 115           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89            |               | 70 - 130 |

Lab Sample ID: LCSD 880-19793/2-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19793

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene | 0.100       | 0.09073     |                | mg/Kg |   | 91   | 70 - 130     | 18  | 35    |

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## QC Sample Results

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

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

Lab Sample ID: LCSD 880-19793/2-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09648     |                | mg/Kg |   | 96   | 70 - 130     | 25  | 35        |
| Ethylbenzene        | 0.100       | 0.08867     |                | mg/Kg |   | 89   | 70 - 130     | 14  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1910      |                | mg/Kg |   | 96   | 70 - 130     | 20  | 35        |
| o-Xylene            | 0.100       | 0.1058      |                | mg/Kg |   | 106  | 70 - 130     | 29  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 145            | S1+            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89             |                | 70 - 130 |

Lab Sample ID: 880-11299-A-1-H MS

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00200      | U                | 0.0996      | 0.08199   |              | mg/Kg |   | 82   | 70 - 130     |
| Toluene             | <0.00200      | U F1             | 0.0996      | 0.07571   |              | mg/Kg |   | 76   | 70 - 130     |
| Ethylbenzene        | <0.00200      | U F1             | 0.0996      | 0.06193   | F1           | mg/Kg |   | 62   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.199       | 0.1174    | F1           | mg/Kg |   | 59   | 70 - 130     |
| o-Xylene            | <0.00200      | U F1             | 0.0996      | 0.06428   | F1           | mg/Kg |   | 65   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 144          | S1+          | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 81           |              | 70 - 130 |

Lab Sample ID: 880-11299-A-1-I MSD

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.100       | 0.07496    |               | mg/Kg |   | 75   | 70 - 130     | 9   | 35        |
| Toluene             | <0.00200      | U F1             | 0.100       | 0.06880    | F1            | mg/Kg |   | 69   | 70 - 130     | 10  | 35        |
| Ethylbenzene        | <0.00200      | U F1             | 0.100       | 0.05698    | F1            | mg/Kg |   | 57   | 70 - 130     | 8   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.200       | 0.1075     | F1            | mg/Kg |   | 54   | 70 - 130     | 9   | 35        |
| o-Xylene            | <0.00200      | U F1             | 0.100       | 0.06171    | F1            | mg/Kg |   | 62   | 70 - 130     | 4   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 139           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| 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 |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

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## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1943-1

Project/Site: Ross Draw 25 NM Battery

SDG: 31403236.022.0129. task 19.02

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|--------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0        | U            | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 82           |              | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| o-Terphenyl                          | 91           |              | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

Lab Sample ID: LCS 880-19555/2-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 1005          |               | mg/Kg |   | 100  | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000          | 1044          |               | mg/Kg |   | 104  | 70 - 130     |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| 1-Chlorooctane                       | 108           |               | 70 - 130      |       |   |      |              |
| o-Terphenyl                          | 123           |               | 70 - 130      |       |   |      |              |

Lab Sample ID: LCSD 880-19555/3-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 975.8          |                | mg/Kg |   | 98   | 70 - 130     | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 1013           |                | mg/Kg |   | 101  | 70 - 130     | 3   | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| 1-Chlorooctane                       | 102            |                | 70 - 130       |       |   |      |              |     |           |
| o-Terphenyl                          | 118            |                | 70 - 130       |       |   |      |              |     |           |

Lab Sample ID: 880-11287-A-38-E MS

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U F2             | 1000        | 933.5     |              | mg/Kg |   | 91   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | <50.0         | U F1             | 1000        | 1195      |              | mg/Kg |   | 120  | 70 - 130     |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| 1-Chlorooctane                       | 71            |                  | 70 - 130    |           |              |       |   |      |              |
| o-Terphenyl                          | 66            | S1-              | 70 - 130    |           |              |       |   |      |              |

Eurofins Carlsbad

## QC Sample Results

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

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

Lab Sample ID: 880-11287-A-38-F MSD

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U F2             | 998         | 1256       | F2            | mg/Kg |   | 123  | 70 - 130     | 29  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U F1             | 998         | 1394       | F1            | mg/Kg |   | 140  | 70 - 130     | 15  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 77            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19775/1-A

Matrix: Solid

Analysis Batch: 19870

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 |   |          | 02/18/22 21:44 | 1       |

Lab Sample ID: LCS 880-19775/2-A

Matrix: Solid

Analysis Batch: 19870

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-19775/3-A

Matrix: Solid

Analysis Batch: 19870

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         | 268.2       |                | mg/Kg |   | 107  | 90 - 110     | 5   | 20        |

Lab Sample ID: 890-1935-A-1-K MS

Matrix: Solid

Analysis Batch: 19870

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|
| Chloride | 158           | F1               | 253         | 327.2     | F1           | mg/Kg |   | 67   | 90 - 110     |  |

Lab Sample ID: 890-1935-A-1-L MSD

Matrix: Solid

Analysis Batch: 19870

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 158           | F1               | 253         | 280.2      | F1            | mg/Kg |   | 49   | 90 - 110     | 15  | 20        |

Eurofins Carlsbad

## QC Association Summary

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

## GC VOA

## Prep Batch: 19708

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19708/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 19793

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1943-1          | SS04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-19793/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-19793/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-19793/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-11299-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-11299-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 19796

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1943-1          | SS04                   | Total/NA  | Solid  | 8021B  | 19793      |
| MB 880-19708/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 19708      |
| MB 880-19793/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 19793      |
| LCS 880-19793/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 19793      |
| LCSD 880-19793/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 19793      |
| 880-11299-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 19793      |
| 880-11299-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 19793      |

## Analysis Batch: 20044

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1943-1    | SS04             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 19555

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-1943-1           | SS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 19569

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-1943-1           | SS04                   | Total/NA  | Solid  | 8015B NM | 19555      |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 19555      |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 19555      |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 19555      |

## Analysis Batch: 19700

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1943-1    | SS04             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

## HPLC/IC

## Leach Batch: 19775

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1943-1         | SS04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-19775/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-19775/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-19775/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-1935-A-1-K MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-1935-A-1-L MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 19870

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1943-1         | SS04                   | Soluble   | Solid  | 300.0  | 19775      |
| MB 880-19775/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 19775      |
| LCS 880-19775/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 19775      |
| LCSD 880-19775/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 19775      |
| 890-1935-A-1-K MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 19775      |
| 890-1935-A-1-L MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 19775      |

Lab Chronicle

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

Client Sample ID: SS04  
Date Collected: 02/14/22 12:10  
Date Received: 02/15/22 09:25

Lab Sample ID: 890-1943-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 19793        | 02/18/22 09:11       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 19796        | 02/19/22 22:58       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 20044        | 02/22/22 12:09       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 19700        | 02/17/22 13:29       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 19555        | 02/16/22 08:38       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 19569        | 02/16/22 19:37       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 19775        | 02/17/22 21:52       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 19870        | 02/18/22 23:00       | CH      | XEN MID |

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

Accreditation/Certification Summary

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: WSP USA Inc.

Job ID: 890-1943-1

Project/Site: Ross Draw 25 NM Battery

SDG: 31403236.022.0129. task 19.02

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Sample Summary

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

Job ID: 890-1943-1  
SDG: 31403236.022.0129. task 19.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1943-1    | SS04             | Solid  | 02/14/22 12:10 | 02/15/22 09:25 | 0.5   |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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


Page 1 of 1

## Chain of Custody

**Work Order No:** \_\_\_\_\_

|                  |  |                      |                         |   |
|------------------|--|----------------------|-------------------------|---|
| Project Manager: |  | Katei Jennings       | Bill to: (if different) | Amy Ruth                                    |
| Company Name:    |  | WSP USA              | Company Name:           | XTO Energy                                  |
| Address:         |  | 3300 North A Street  | Address:                | 3104 E Green Street                         |
| City, State ZIP: |  | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220                          |
| Phone:           |  | 432 704 5178         | Email:                  | amy.ruth@exxonmobil.com, almea.cole@wsp.com |

|  |  |
|--|--|
| <b>Work Order Comments</b>   |  |
| <b>Program:</b> <input checked="" type="checkbox"/> UST/ST <input type="checkbox"/> RP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> \$perfund <input type="checkbox"/> |  |
| <b>State of Project:</b>   |  |
| Reporting Level I <input type="checkbox"/> Level III <input type="checkbox"/> T/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>   |  |
| Deliverables: EDD <input type="checkbox"/> ADaT <input type="checkbox"/> Other: <input type="checkbox"/>   |  |

|                       |   |   |                  |  |   |  |
|-----------------------|---|---|------------------|--|---|--|
| Project Name:         | Ross Draw 25 NM Battery   | Turn Around   | ANALYSIS REQUEST | <br>890-1943 Chain of Custody | CC: 1056301001<br><br>TAT starts the day received by the lab, if received by 4:30pm |  |
| Project Number:       | 31403236.022.0129 Task 19.02  | Routine <input checked="" type="checkbox"/>                         |                  |  |   |  |
| P.O. Number:          | NAPP2201444794  | Rush:   |                  |  |   |  |
| Sampler's Name:       | Mercy Roitch.   | Due Date:   |                  |  |   |  |
| <b>SAMPLE RECEIPT</b> |   |   |                  |  |   |  |
| Temperature (°C):     | Temp Blank: 2.6/0.4   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID   | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>              |   |  |
| Received Intact:      | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: 1111-003  |                  |  |   |  |
| Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Correction Factor:  | -0.2             |  |   |  |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Total Containers:   |                  |  |   |  |

[illegible]

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| 1 <i>Boys</i>                | <i>Col Long</i>          | 2-15-22 0925 | 2                            |                          |           |
| 3                            |                          |              | 4                            |                          |           |
| 5                            |                          |              | 6                            |                          |           |

Download Date: 05/11/18 Download Date: 05/11/18

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1943-1

SDG Number: 31403236.022.0129. task 19.02

Login Number: 1943

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1943-1

SDG Number: 31403236.022.0129. task 19.02

Login Number: 1943

List Source: Eurofins Midland

List Number: 2

List Creation: 02/16/22 12:10 PM

Creator: Kramer, Jessica

| 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").  | N/A    |         |





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1944-1

Laboratory SDG: 31403236.022.0129.task.19.02

Client Project/Site: Ross Draw 25 NM Batery

For:

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

Attn: Kalei Jennings

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

Authorized for release by:  
2/22/2022 3:37:57 PM

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

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*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 NM Batery

Laboratory Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

**Job ID: 890-1944-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-1944-1****Receipt**

The sample was received on 2/15/2022 9:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS03 (890-1944-1) and (880-11299-A-1-J). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19793 and analytical batch 880-19796 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19555 and analytical batch 880-19569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-11287-A-38-E MS). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

Client Sample ID: SS03

Lab Sample ID: 890-1944-1

Date Collected: 02/14/22 13:20

Matrix: Solid

Date Received: 02/15/22 09:25

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:26 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:26 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:26 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:26 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:26 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 134       | S1+       | 70 - 130 | 02/18/22 09:11 | 02/19/22 23:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 02/18/22 09:11 | 02/19/22 23:26 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 02/22/22 12:09 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 02/17/22 13:29 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 19:57 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 19:57 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 19:57 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94        |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 19:57 | 1       |
| o-Terphenyl    | 100       |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 19:57 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 152    |           | 24.9 | mg/Kg |   |          | 02/20/22 19:42 | 5       |

Eurofins Carlsbad

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-11299-A-1-H MS                | Matrix Spike           | 144 S1+  | 81                |
| 880-11299-A-1-I MSD               | Matrix Spike Duplicate | 139 S1+  | 96                |
| 890-1944-1                        | SS03                   | 134 S1+  | 102               |
| LCS 880-19793/1-A                 | Lab Control Sample     | 115  | 89                |
| LCSD 880-19793/2-A                | Lab Control Sample Dup | 145 S1+  | 89                |
| MB 880-19708/5-A                  | Method Blank           | 102  | 77                |
| MB 880-19793/5-A                  | Method Blank           | 103  | 77                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-11287-A-38-E MS     | Matrix Spike           | 71   | 66 S1-            |
| 880-11287-A-38-F MSD    | Matrix Spike Duplicate | 84   | 77                |
| 890-1944-1              | SS03                   | 94   | 100               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-19555/2-A       | Lab Control Sample     | 108  | 123               |
| LCSD 880-19555/3-A      | Lab Control Sample Dup | 102  | 118               |
| MB 880-19555/1-A        | Method Blank           | 82   | 91                |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1944-1

Project/Site: Ross Draw 25 NM Batery

SDG: 31403236.022.0129.task.19.02

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

Lab Sample ID: MB 880-19708/5-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19708

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 07:56 | 1       |

Lab Sample ID: MB 880-19793/5-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:03 | 1       |

Lab Sample ID: LCS 880-19793/1-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.07587    |               | mg/Kg |   | 76   | 70 - 130     |
| Toluene             | 0.100       | 0.07526    |               | mg/Kg |   | 75   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.07693    |               | mg/Kg |   | 77   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1567     |               | mg/Kg |   | 78   | 70 - 130     |
| o-Xylene            | 0.100       | 0.07923    |               | mg/Kg |   | 79   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 115           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89            |               | 70 - 130 |

Lab Sample ID: LCSD 880-19793/2-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19793

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene | 0.100       | 0.09073     |                | mg/Kg |   | 91   | 70 - 130     | 18  | 35    |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

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

Lab Sample ID: LCSD 880-19793/2-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09648     |                | mg/Kg |   | 96   | 70 - 130     | 25  | 35        |
| Ethylbenzene        | 0.100       | 0.08867     |                | mg/Kg |   | 89   | 70 - 130     | 14  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1910      |                | mg/Kg |   | 96   | 70 - 130     | 20  | 35        |
| o-Xylene            | 0.100       | 0.1058      |                | mg/Kg |   | 106  | 70 - 130     | 29  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 145            | S1+            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89             |                | 70 - 130 |

Lab Sample ID: 880-11299-A-1-H MS

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00200      | U                | 0.0996      | 0.08199   |              | mg/Kg |   | 82   | 70 - 130     |
| Toluene             | <0.00200      | U F1             | 0.0996      | 0.07571   |              | mg/Kg |   | 76   | 70 - 130     |
| Ethylbenzene        | <0.00200      | U F1             | 0.0996      | 0.06193   | F1           | mg/Kg |   | 62   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.199       | 0.1174    | F1           | mg/Kg |   | 59   | 70 - 130     |
| o-Xylene            | <0.00200      | U F1             | 0.0996      | 0.06428   | F1           | mg/Kg |   | 65   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 144          | S1+          | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 81           |              | 70 - 130 |

Lab Sample ID: 880-11299-A-1-I MSD

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.100       | 0.07496    |               | mg/Kg |   | 75   | 70 - 130     | 9   | 35        |
| Toluene             | <0.00200      | U F1             | 0.100       | 0.06880    | F1            | mg/Kg |   | 69   | 70 - 130     | 10  | 35        |
| Ethylbenzene        | <0.00200      | U F1             | 0.100       | 0.05698    | F1            | mg/Kg |   | 57   | 70 - 130     | 8   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.200       | 0.1075     | F1            | mg/Kg |   | 54   | 70 - 130     | 9   | 35        |
| o-Xylene            | <0.00200      | U F1             | 0.100       | 0.06171    | F1            | mg/Kg |   | 62   | 70 - 130     | 4   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 139           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| 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 |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 82              |                 | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| o-Terphenyl                          | 91              |                 | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

Lab Sample ID: LCS 880-19555/2-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1005             |                  | mg/Kg |   | 100  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000             | 1044             |                  | mg/Kg |   | 104  | 70 - 130        |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                 |
| 1-Chlorooctane                       | 108              |                  | 70 - 130         |       |   |      |                 |
| o-Terphenyl                          | 123              |                  | 70 - 130         |       |   |      |                 |

Lab Sample ID: LCSD 880-19555/3-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 975.8             |                   | mg/Kg |   | 98   | 70 - 130        | 3   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 1013              |                   | mg/Kg |   | 101  | 70 - 130        | 3   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                 |     |              |
| 1-Chlorooctane                       | 102               |                   | 70 - 130          |       |   |      |                 |     |              |
| o-Terphenyl                          | 118               |                   | 70 - 130          |       |   |      |                 |     |              |

Lab Sample ID: 880-11287-A-38-E MS

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U F2                | 1000           | 933.5        |                 | mg/Kg |   | 91   | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | <50.0            | U F1                | 1000           | 1195         |                 | mg/Kg |   | 120  | 70 - 130        |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                 |
| 1-Chlorooctane                       | 71               |                     | 70 - 130       |              |                 |       |   |      |                 |
| o-Terphenyl                          | 66               | S1-                 | 70 - 130       |              |                 |       |   |      |                 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

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

Lab Sample ID: 880-11287-A-38-F MSD

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U F2             | 998         | 1256       | F2            | mg/Kg |   | 123  | 70 - 130     | 29  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U F1             | 998         | 1394       | F1            | mg/Kg |   | 140  | 70 - 130     | 15  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 77            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19776/1-A

Matrix: Solid

Analysis Batch: 19882

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 |   |          | 02/20/22 17:28 | 1       |

Lab Sample ID: LCS 880-19776/2-A

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 256.5      |               | mg/Kg |   | 103  | 90 - 110     |

Lab Sample ID: LCSD 880-19776/3-A

Matrix: Solid

Analysis Batch: 19882

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         | 259.0       |                | mg/Kg |   | 104  | 90 - 110     | 1   | 20        |

Lab Sample ID: 890-1938-A-6-M MS

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 89.9          |                  | 250         | 327.9     |              | mg/Kg |   | 95   | 90 - 110     |

Lab Sample ID: 890-1938-A-6-N MSD

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 89.9          |                  | 250         | 340.5      |               | mg/Kg |   | 100  | 90 - 110     | 4   | 20        |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

## GC VOA

## Prep Batch: 19708

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19708/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 19793

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1944-1          | SS03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-19793/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-19793/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-19793/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-11299-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-11299-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 19796

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1944-1          | SS03                   | Total/NA  | Solid  | 8021B  | 19793      |
| MB 880-19708/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 19708      |
| MB 880-19793/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 19793      |
| LCS 880-19793/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 19793      |
| LCSD 880-19793/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 19793      |
| 880-11299-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 19793      |
| 880-11299-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 19793      |

## Analysis Batch: 20045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1944-1    | SS03             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 19555

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-1944-1           | SS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 19569

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-1944-1           | SS03                   | Total/NA  | Solid  | 8015B NM | 19555      |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 19555      |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 19555      |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 19555      |

## Analysis Batch: 19701

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1944-1    | SS03             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

## HPLC/IC

## Leach Batch: 19776

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1944-1         | SS03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-19776/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-19776/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-19776/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-1938-A-6-M MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-1938-A-6-N MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 19882

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1944-1         | SS03                   | Soluble   | Solid  | 300.0  | 19776      |
| MB 880-19776/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 19776      |
| LCS 880-19776/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 19776      |
| LCSD 880-19776/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 19776      |
| 890-1938-A-6-M MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 19776      |
| 890-1938-A-6-N MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 19776      |

Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

Client Sample ID: SS03  
Date Collected: 02/14/22 13:20  
Date Received: 02/15/22 09:25

Lab Sample ID: 890-1944-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 19793        | 02/18/22 09:11       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 19796        | 02/19/22 23:26       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 20045        | 02/22/22 12:09       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 19701        | 02/17/22 13:29       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 19555        | 02/16/22 08:38       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 19569        | 02/16/22 19:57       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 19776        | 02/17/22 21:54       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 19882        | 02/20/22 19:42       | CH      | XEN MID |

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

Laboratory: Eurofins Midland

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

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

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

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



## Method Summary

Client: WSP USA Inc.

Job ID: 890-1944-1

Project/Site: Ross Draw 25 NM Batery

SDG: 31403236.022.0129.task.19.02

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Sample Summary

Client: WSP USA Inc.  
Project/Site: Ross Draw 25 NM Batery

Job ID: 890-1944-1  
SDG: 31403236.022.0129.task.19.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1944-1    | SS03             | Solid  | 02/14/22 13:20 | 02/15/22 09:25 | 0.5   |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Houston, TX (281) 240-4220 Dallas, TX (214) 902-0330 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)


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## Chain of Custody

**Work Order No:** \_\_\_\_\_

|                  |  |                      |                         |   |
|------------------|--|----------------------|-------------------------|---|
| Project Manager: |  | Kalei Jennings       | Bill to: (if different) | Amy Ruth                                    |
| Company Name:    |  | WSP USA              | Company Name:           | XTO Energy                                  |
| Address:         |  | 3300 North A Street  | Address:                | 3104 E Green Street                         |
| City, State ZIP: |  | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220                          |
| Phone:           |  | 432 704 5178         | Email:                  | amy.ruth@exxonmobil.com, aimee.cole@wsp.com |

|   |  |  |  |  |
|---|--|--|--|--|
| <b>Work Order Comments</b><br><b>Program:</b> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Growfields <input type="checkbox"/> RC   \$perfund <input type="checkbox"/><br><b>State of Project:</b><br>Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> T/U/ST <input type="checkbox"/> RP   L[Level IV] <input type="checkbox"/><br>Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: |  |  |  |  |
|---|--|--|--|--|

|  |   |                           |                                     |   |
|--|---|---------------------------|-------------------------------------|---|
| <b>Project Name:</b>   | Ross Draw 25 NM Battery   | <b>Turn Around</b>        |                                     | <b>Work Order Notes</b>                                       |
| <b>Project Number:</b>   | 31403236.022.0129 Task 19.02  | <b>Routine</b>            | <input checked="" type="checkbox"/> |   |
| <b>P.O. Number:</b>  | NAPP2201444794  | <b>Rush:</b>              |                                     | CC: 1056301001  |
| <b>Sampler's Name:</b>   | Mercy Roitch.   | <b>Due Date:</b>          |                                     |   |
| <b>SAMPLE RECEIPT</b>  | <b>Temp Blank:</b>  | <b>Yes</b>                | <b>No</b>                           |   |
| <b>Temperature (°C):</b>   | 0.1e / 0.1  | <b>Thermometer ID</b>     |                                     |   |
| <b>Received intact:</b>  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <b>Correction Factor:</b> | -0.2                                |   |
| <b>Cooler Custody Seals:</b>   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <b>Total Containers:</b>  |                                     | TAT starts the day received by the lab. If received by 4:30pm |
| <b>Sample Custody Seals:</b>   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                           |                                     |   |
| <b>ANALYSIS REQUEST</b>  |   |                           |                                     |   |
|  |   |                           |                                     |   |
| EPA 8015)  |   |                           |                                     |   |
| EPA 0=8021)  |   |                           |                                     |   |
| le (EPA 300.0)   |   |                           |                                     |   |
| 890-1944 Chain of Custody  |   |                           |                                     |   |
|  |   |                           |                                     |   |
|  |   |                           |                                     |   |

[illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr I 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 H U 1631/245.1/14/0/14/1 :hu

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| <i>[Signature]</i>           | <i>[Signature]</i>       | 01/5/22 0925 |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |

Revised Date 05/11/18 Rev 2018

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1944-1

SDG Number: 31403236.022.0129.task.19.02

Login Number: 1944

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

| Question   | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | False  |         |
| 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: 890-1944-1

SDG Number: 31403236.022.0129.task.19.02

Login Number: 1944

List Source: Eurofins Midland

List Number: 2

List Creation: 02/16/22 12:10 PM

Creator: Kramer, Jessica

| 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").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1945-1

Laboratory SDG: 31403236.022.0129task19.02

Client Project/Site: Ross Draw 25 NM Battery

For:

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

Attn: Kalei Jennings

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

Authorized for release by:  
2/22/2022 3:38:00 PM

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

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

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

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

Laboratory Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

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## Definitions/Glossary

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

**Job ID: 890-1945-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-1945-1****Receipt**

The sample was received on 2/15/2022 9:36 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (890-1945-1) and (880-11299-A-1-J). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19793 and analytical batch 880-19796 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19555 and analytical batch 880-19569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-11287-A-38-E MS). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

## Client Sample Results

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

Client Sample ID: SS02

Lab Sample ID: 890-1945-1

Date Collected: 02/14/22 12:02

Matrix: Solid

Date Received: 02/15/22 09:36

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:53 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:53 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:53 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:53 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:53 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 23:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 149       | S1+       | 70 - 130 | 02/18/22 09:11 | 02/19/22 23:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 02/18/22 09:11 | 02/19/22 23:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 02/22/22 12:09 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 02/17/22 13:29 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 20:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 20:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 20:18 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94        |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 20:18 | 1       |
| o-Terphenyl    | 96        |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 20:18 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 51.3   |           | 4.95 | mg/Kg |   |          | 02/20/22 20:01 | 1       |

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## Surrogate Summary

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-11299-A-1-H MS                | Matrix Spike           | 144 S1+  | 81                |
| 880-11299-A-1-I MSD               | Matrix Spike Duplicate | 139 S1+  | 96                |
| 890-1945-1                        | SS02                   | 149 S1+  | 96                |
| LCS 880-19793/1-A                 | Lab Control Sample     | 115  | 89                |
| LCSD 880-19793/2-A                | Lab Control Sample Dup | 145 S1+  | 89                |
| MB 880-19708/5-A                  | Method Blank           | 102  | 77                |
| MB 880-19793/5-A                  | Method Blank           | 103  | 77                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-11287-A-38-E MS     | Matrix Spike           | 71   | 66 S1-            |
| 880-11287-A-38-F MSD    | Matrix Spike Duplicate | 84   | 77                |
| 890-1945-1              | SS02                   | 94   | 96                |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-19555/2-A       | Lab Control Sample     | 108  | 123               |
| LCSD 880-19555/3-A      | Lab Control Sample Dup | 102  | 118               |
| MB 880-19555/1-A        | Method Blank           | 82   | 91                |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

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

Lab Sample ID: MB 880-19708/5-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19708

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 07:56 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 07:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 07:56 | 1       |

Lab Sample ID: MB 880-19793/5-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 09:11 | 02/19/22 22:03 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77           |              | 70 - 130 | 02/18/22 09:11 | 02/19/22 22:03 | 1       |

Lab Sample ID: LCS 880-19793/1-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.07587    |               | mg/Kg |   | 76   | 70 - 130     |
| Toluene             | 0.100       | 0.07526    |               | mg/Kg |   | 75   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.07693    |               | mg/Kg |   | 77   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1567     |               | mg/Kg |   | 78   | 70 - 130     |
| o-Xylene            | 0.100       | 0.07923    |               | mg/Kg |   | 79   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 115           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89            |               | 70 - 130 |

Lab Sample ID: LCSD 880-19793/2-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19793

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene | 0.100       | 0.09073     |                | mg/Kg |   | 91   | 70 - 130     | 18  | 35    |

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## QC Sample Results

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

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

Lab Sample ID: LCSD 880-19793/2-A

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09648     |                | mg/Kg |   | 96   | 70 - 130     | 25  | 35        |
| Ethylbenzene        | 0.100       | 0.08867     |                | mg/Kg |   | 89   | 70 - 130     | 14  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1910      |                | mg/Kg |   | 96   | 70 - 130     | 20  | 35        |
| o-Xylene            | 0.100       | 0.1058      |                | mg/Kg |   | 106  | 70 - 130     | 29  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 145            | S1+            | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89             |                | 70 - 130 |

Lab Sample ID: 880-11299-A-1-H MS

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00200      | U                | 0.0996      | 0.08199   |              | mg/Kg |   | 82   | 70 - 130     |
| Toluene             | <0.00200      | U F1             | 0.0996      | 0.07571   |              | mg/Kg |   | 76   | 70 - 130     |
| Ethylbenzene        | <0.00200      | U F1             | 0.0996      | 0.06193   | F1           | mg/Kg |   | 62   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.199       | 0.1174    | F1           | mg/Kg |   | 59   | 70 - 130     |
| o-Xylene            | <0.00200      | U F1             | 0.0996      | 0.06428   | F1           | mg/Kg |   | 65   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 144          | S1+          | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 81           |              | 70 - 130 |

Lab Sample ID: 880-11299-A-1-I MSD

Matrix: Solid

Analysis Batch: 19796

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19793

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.100       | 0.07496    |               | mg/Kg |   | 75   | 70 - 130     | 9   | 35        |
| Toluene             | <0.00200      | U F1             | 0.100       | 0.06880    | F1            | mg/Kg |   | 69   | 70 - 130     | 10  | 35        |
| Ethylbenzene        | <0.00200      | U F1             | 0.100       | 0.05698    | F1            | mg/Kg |   | 57   | 70 - 130     | 8   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.200       | 0.1075     | F1            | mg/Kg |   | 54   | 70 - 130     | 9   | 35        |
| o-Xylene            | <0.00200      | U F1             | 0.100       | 0.06171    | F1            | mg/Kg |   | 62   | 70 - 130     | 4   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 139           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| 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 |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

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## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1945-1

Project/Site: Ross Draw 25 NM Battery

SDG: 31403236.022.0129task19.02

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 82              |                 | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| o-Terphenyl                          | 91              |                 | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

Lab Sample ID: LCS 880-19555/2-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1005             |                  | mg/Kg |   | 100  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000             | 1044             |                  | mg/Kg |   | 104  | 70 - 130        |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                 |
| 1-Chlorooctane                       | 108              |                  | 70 - 130         |       |   |      |                 |
| o-Terphenyl                          | 123              |                  | 70 - 130         |       |   |      |                 |

Lab Sample ID: LCSD 880-19555/3-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 975.8             |                   | mg/Kg |   | 98   | 70 - 130        | 3   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 1013              |                   | mg/Kg |   | 101  | 70 - 130        | 3   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                 |     |              |
| 1-Chlorooctane                       | 102               |                   | 70 - 130          |       |   |      |                 |     |              |
| o-Terphenyl                          | 118               |                   | 70 - 130          |       |   |      |                 |     |              |

Lab Sample ID: 880-11287-A-38-E MS

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U F2                | 1000           | 933.5        |                 | mg/Kg |   | 91   | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | <50.0            | U F1                | 1000           | 1195         |                 | mg/Kg |   | 120  | 70 - 130        |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                 |
| 1-Chlorooctane                       | 71               |                     | 70 - 130       |              |                 |       |   |      |                 |
| o-Terphenyl                          | 66               | S1-                 | 70 - 130       |              |                 |       |   |      |                 |

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## QC Sample Results

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

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

Lab Sample ID: 880-11287-A-38-F MSD

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U F2             | 998         | 1256       | F2            | mg/Kg |   | 123  | 70 - 130     | 29  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U F1             | 998         | 1394       | F1            | mg/Kg |   | 140  | 70 - 130     | 15  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 77            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19776/1-A

Matrix: Solid

Analysis Batch: 19882

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 |   |          | 02/20/22 17:28 | 1       |

Lab Sample ID: LCS 880-19776/2-A

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |
|----------|-------------|------------|---------------|-------|---|------|--------------|--|
| Chloride | 250         | 256.5      |               | mg/Kg |   | 103  | 90 - 110     |  |

Lab Sample ID: LCSD 880-19776/3-A

Matrix: Solid

Analysis Batch: 19882

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         | 259.0       |                | mg/Kg |   | 104  | 90 - 110     | 1   | 20        |

Lab Sample ID: 890-1938-A-6-M MS

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|
| Chloride | 89.9          |                  | 250         | 327.9     |              | mg/Kg |   | 95   | 90 - 110     |  |

Lab Sample ID: 890-1938-A-6-N MSD

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 89.9          |                  | 250         | 340.5      |               | mg/Kg |   | 100  | 90 - 110     | 4   | 20        |

Eurofins Carlsbad

## QC Association Summary

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

## GC VOA

## Prep Batch: 19708

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19708/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 19793

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1945-1          | SS02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-19793/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-19793/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-19793/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-11299-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-11299-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 19796

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1945-1          | SS02                   | Total/NA  | Solid  | 8021B  | 19793      |
| MB 880-19708/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 19708      |
| MB 880-19793/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 19793      |
| LCS 880-19793/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 19793      |
| LCSD 880-19793/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 19793      |
| 880-11299-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 19793      |
| 880-11299-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 19793      |

## Analysis Batch: 20046

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1945-1    | SS02             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 19555

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-1945-1           | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 19569

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-1945-1           | SS02                   | Total/NA  | Solid  | 8015B NM | 19555      |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 19555      |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 19555      |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 19555      |

## Analysis Batch: 19702

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1945-1    | SS02             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

## HPLC/IC

## Leach Batch: 19776

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1945-1         | SS02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-19776/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-19776/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-19776/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-1938-A-6-M MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-1938-A-6-N MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 19882

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1945-1         | SS02                   | Soluble   | Solid  | 300.0  | 19776      |
| MB 880-19776/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 19776      |
| LCS 880-19776/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 19776      |
| LCSD 880-19776/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 19776      |
| 890-1938-A-6-M MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 19776      |
| 890-1938-A-6-N MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 19776      |

Lab Chronicle

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

Client Sample ID: SS02  
Date Collected: 02/14/22 12:02  
Date Received: 02/15/22 09:36

Lab Sample ID: 890-1945-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 19793        | 02/18/22 09:11       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 19796        | 02/19/22 23:53       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 20046        | 02/22/22 12:09       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 19702        | 02/17/22 13:29       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 19555        | 02/16/22 08:38       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 19569        | 02/16/22 20:18       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 19776        | 02/17/22 21:54       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 19882        | 02/20/22 20:01       | CH      | XEN MID |

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

Accreditation/Certification Summary

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: WSP USA Inc.

Job ID: 890-1945-1

Project/Site: Ross Draw 25 NM Battery

SDG: 31403236.022.0129task19.02

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

Sample Summary

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

Job ID: 890-1945-1  
SDG: 31403236.022.0129task19.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1945-1    | SS02             | Solid  | 02/14/22 12:02 | 02/15/22 09:36 | 0.5   |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 233-3927  
Hobbs, NM (575) 392-7550


Page 1 of 1

## Chain of Custody

**Work Order No:**

|                  |                      |                         |  |
|------------------|----------------------|-------------------------|--|
| Project Manager: | Katei Jennings       | Bill to: (if different) | Amy Ruth                                   |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy                                 |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street                        |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220                         |
| Phone:           | 432 704 5178         | Email:                  | amy.ruth@exxomobil.com, aimee.cole@wsp.com |

| Work Order Comments |  |                                    |                                    |  |                                   |                          |  |  |  |
|---------------------|--|------------------------------------|------------------------------------|--|-----------------------------------|--------------------------|--|--|--|
| Program: UST/PST    |  | <input type="checkbox"/> RP        | <input type="checkbox"/> Rowfields | <input checked="" type="checkbox"/> RC | <input type="checkbox"/> Rperfund | <input type="checkbox"/> |  |  |  |
| State of Project:   |  |                                    |                                    |  |                                   |                          |  |  |  |
| Reporting Level II  |  | <input type="checkbox"/> Level III | <input type="checkbox"/> T/UST     | <input type="checkbox"/> RP            | <input type="checkbox"/> Level IV | <input type="checkbox"/> |  |  |  |
| Deliverables: EDD   |  | <input type="checkbox"/>           | ADaBT                              | <input type="checkbox"/>               | Other:                            |                          |  |  |  |

|                        |                              |                    |                                     |  |  |  |  |   |                         |
|------------------------|------------------------------|--------------------|-------------------------------------|--|--|--|--|---|-------------------------|
| <b>Project Name:</b>   | Ross Draw 25 NM Battery      | <b>Turn Around</b> | <b>ANALYSIS REQUEST</b>             |  |  |  |  |   | <b>Work Order Notes</b> |
| <b>Project Number:</b> | 31403236.022.0129 Task 19.02 | <b>Routine</b>     | <input checked="" type="checkbox"/> |  |  |  |  |   |                         |
| <b>P.O. Number:</b>    | NAPP2201444794               | <b>Rush:</b>       |                                     |  |  |  |  |   |                         |
| <b>Sampler's Name:</b> | Mercy Rotlich.               | <b>Due Date:</b>   |                                     |  |  |  |  |   |                         |
|                        |                              |                    |                                     |  |  |  |  |  |                         |
|                        |                              |                    |                                     |  |  |  |  | CC: 1056301001  |                         |

| SAMPLE RECEIPT        |         | Temp Blank: | Yes | No | Well Ice:          | Yes  | No |
|-----------------------|---------|-------------|-----|----|--------------------|------|----|
| Temperature (°C):     | 0.6/0.4 |             |     |    | Thermometer ID     |      |    |
| Received intact:      | Yes     | No          |     |    | NO M-003           |      |    |
| Cooler Custody Seals: | Yes     | No          |     |    | Correction Factor: | -0.2 |    |
| Sample Custody Seals: | Yes     | No          |     |    | Total Containers:  |      |    |

Number of Containers

PA 8015)

EPA 0-8021)

le (EPA 300.0)

890-1345 Chain of Custody

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

[illegible]

| Total 200.7 / 6010   |       | 200.8 / 6020:                   |   |
|--|-------|---------------------------------|---|
| 8RCRA  | 13PPM | Texas 11                        | AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn |
| TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U |       |                                 |   |
|  |       | 1631 / 245.1 / 7470 / 7471 : Hg |   |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xeno 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 Xeno. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| 1 <i>Atiya</i>               | <i>Clara Guy</i>         | 2-15-22 0925 |                              |                          |           |
| 3                            |                          | 4            |                              |                          |           |
| 5                            |                          | 6            |                              |                          |           |

Revised Date: 06/14/18 D.W. 2018



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1945-1

SDG Number: 31403236.022.0129task19.02

Login Number: 1945

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: 890-1945-1

SDG Number: 31403236.022.0129task19.02

Login Number: 1945

List Source: Eurofins Midland

List Number: 2

List Creation: 02/16/22 12:10 PM

Creator: Kramer, Jessica

| 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").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1946-1

Laboratory SDG: 31403236.022.0129.task19.02

Client Project/Site: Ross Draw 25 NM Battery

For:

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

Attn: Kalei Jennings

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

Authorized for release by:  
2/22/2022 3:48:14 PM

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

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

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

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

Laboratory Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

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## Definitions/Glossary

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

**Job ID: 890-1946-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-1946-1****Receipt**

The sample was received on 2/15/2022 9:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19710 and analytical batch 880-19783 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19555 and analytical batch 880-19569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-11287-A-38-E MS). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

## Client Sample Results

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

Client Sample ID: SS01

Lab Sample ID: 890-1946-1

Date Collected: 02/14/22 11:58

Matrix: Solid

Date Received: 02/15/22 09:25

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F2 F1   | 0.00199 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 12:24 | 1       |
| Toluene             | <0.00199 | U F2 F1   | 0.00199 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 12:24 | 1       |
| Ethylbenzene        | <0.00199 | U F2 F1   | 0.00199 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 12:24 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F2 F1   | 0.00398 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 12:24 | 1       |
| o-Xylene            | <0.00199 | U F2 F1   | 0.00199 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 12:24 | 1       |
| Xylenes, Total      | <0.00398 | U F2 F1   | 0.00398 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 12:24 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 128       |           | 70 - 130 | 02/18/22 08:30 | 02/19/22 12:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 02/18/22 08:30 | 02/19/22 12:24 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 02/21/22 19:46 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 02/17/22 13:29 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 20:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 20:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 02/16/22 08:38 | 02/16/22 20:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98        |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 20:38 | 1       |
| o-Terphenyl    | 101       |           | 70 - 130 | 02/16/22 08:38 | 02/16/22 20:38 | 1       |

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

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 10400  |           | 101 | mg/Kg |   |          | 02/20/22 20:08 | 20      |

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## Surrogate Summary

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-1946-1                        | SS01                   | 128  | 103               |
| 890-1946-1 MS                     | SS01                   | 120  | 109               |
| 890-1946-1 MSD                    | SS01                   | 138 S1+  | 120               |
| LCS 880-19710/1-A                 | Lab Control Sample     | 113  | 95                |
| LCSD 880-19710/2-A                | Lab Control Sample Dup | 113  | 90                |
| MB 880-19707/5-A                  | Method Blank           | 119  | 98                |
| MB 880-19710/5-A                  | Method Blank           | 136 S1+  | 106               |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-11287-A-38-E MS     | Matrix Spike           | 71   | 66 S1-            |
| 880-11287-A-38-F MSD    | Matrix Spike Duplicate | 84   | 77                |
| 890-1946-1              | SS01                   | 98   | 101               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-19555/2-A       | Lab Control Sample     | 108  | 123               |
| LCSD 880-19555/3-A      | Lab Control Sample Dup | 102  | 118               |
| MB 880-19555/1-A        | Method Blank           | 82   | 91                |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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## QC Sample Results

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

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

Lab Sample ID: MB 880-19707/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19707

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 00:17 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 00:17 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 00:17 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 00:17 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 00:17 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:00 | 02/19/22 00:17 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 119          |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 00:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 02/18/22 08:00 | 02/19/22 00:17 | 1       |

Lab Sample ID: MB 880-19710/5-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19710

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 11:55 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 11:55 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 11:55 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 11:55 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 11:55 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 02/18/22 08:30 | 02/19/22 11:55 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 136          | S1+          | 70 - 130 | 02/18/22 08:30 | 02/19/22 11:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106          |              | 70 - 130 | 02/18/22 08:30 | 02/19/22 11:55 | 1       |

Lab Sample ID: LCS 880-19710/1-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19710

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.08299    |               | mg/Kg |   | 83   | 70 - 130     |
| Toluene             | 0.100       | 0.09093    |               | mg/Kg |   | 91   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.08868    |               | mg/Kg |   | 89   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1786     |               | mg/Kg |   | 89   | 70 - 130     |
| o-Xylene            | 0.100       | 0.09383    |               | mg/Kg |   | 94   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 113           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-19710/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19710

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene | 0.100       | 0.07991     |                | mg/Kg |   | 80   | 70 - 130     | 4   | 35    |

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## QC Sample Results

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

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

Lab Sample ID: LCSD 880-19710/2-A

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19710

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09096     |                | mg/Kg |   | 91   | 70 - 130     | 0   | 35        |
| Ethylbenzene        | 0.100       | 0.09346     |                | mg/Kg |   | 93   | 70 - 130     | 5   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1837      |                | mg/Kg |   | 92   | 70 - 130     | 3   | 35        |
| o-Xylene            | 0.100       | 0.09380     |                | mg/Kg |   | 94   | 70 - 130     | 0   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 113            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 90             |                | 70 - 130 |

Lab Sample ID: 890-1946-1 MS

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 19710

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00199      | U F2 F1          | 0.100       | 0.01806   | F1           | mg/Kg |   | 18   | 70 - 130     |
| Toluene             | <0.00199      | U F2 F1          | 0.100       | 0.01388   | F1           | mg/Kg |   | 14   | 70 - 130     |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.100       | 0.01685   | F1           | mg/Kg |   | 17   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.200       | 0.01635   | F1           | mg/Kg |   | 8    | 70 - 130     |
| o-Xylene            | <0.00199      | U F2 F1          | 0.100       | 0.01756   | F1           | mg/Kg |   | 18   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 120          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109          |              | 70 - 130 |

Lab Sample ID: 890-1946-1 MSD

Matrix: Solid

Analysis Batch: 19783

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 19710

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00199      | U F2 F1          | 0.0998      | 0.07436    | F2            | mg/Kg |   | 75   | 70 - 130     | 122 | 35        |
| Toluene             | <0.00199      | U F2 F1          | 0.0998      | 0.06677    | F2 F1         | mg/Kg |   | 67   | 70 - 130     | 131 | 35        |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.0998      | 0.06714    | F2 F1         | mg/Kg |   | 67   | 70 - 130     | 120 | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.200       | 0.1285     | F2 F1         | mg/Kg |   | 64   | 70 - 130     | 155 | 35        |
| o-Xylene            | <0.00199      | U F2 F1          | 0.0998      | 0.06604    | F2 F1         | mg/Kg |   | 66   | 70 - 130     | 116 | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 138           | S1+           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 120           |               | 70 - 130 |

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| 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 |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

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## QC Sample Results

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

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

Lab Sample ID: MB 880-19555/1-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 82              |                 | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |
| o-Terphenyl                          | 91              |                 | 70 - 130 |       |   | 02/16/22 08:38 | 02/16/22 11:41 | 1       |

Lab Sample ID: LCS 880-19555/2-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1005             |                  | mg/Kg |   | 100  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000             | 1044             |                  | mg/Kg |   | 104  | 70 - 130        |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                 |
| 1-Chlorooctane                       | 108              |                  | 70 - 130         |       |   |      |                 |
| o-Terphenyl                          | 123              |                  | 70 - 130         |       |   |      |                 |

Lab Sample ID: LCSD 880-19555/3-A

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 975.8             |                   | mg/Kg |   | 98   | 70 - 130        | 3   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 1013              |                   | mg/Kg |   | 101  | 70 - 130        | 3   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                 |     |              |
| 1-Chlorooctane                       | 102               |                   | 70 - 130          |       |   |      |                 |     |              |
| o-Terphenyl                          | 118               |                   | 70 - 130          |       |   |      |                 |     |              |

Lab Sample ID: 880-11287-A-38-E MS

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U F2                | 1000           | 933.5        |                 | mg/Kg |   | 91   | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | <50.0            | U F1                | 1000           | 1195         |                 | mg/Kg |   | 120  | 70 - 130        |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                 |
| 1-Chlorooctane                       | 71               |                     | 70 - 130       |              |                 |       |   |      |                 |
| o-Terphenyl                          | 66               | S1-                 | 70 - 130       |              |                 |       |   |      |                 |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1946-1

Project/Site: Ross Draw 25 NM Battery

SDG: 31403236.022.0129.task19.02

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

Lab Sample ID: 880-11287-A-38-F MSD

Matrix: Solid

Analysis Batch: 19569

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19555

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U F2             | 998         | 1256       | F2            | mg/Kg |   | 123  | 70 - 130     | 29  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U F1             | 998         | 1394       | F1            | mg/Kg |   | 140  | 70 - 130     | 15  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 84            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 77            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19776/1-A

Matrix: Solid

Analysis Batch: 19882

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 |   |          | 02/20/22 17:28 | 1       |

Lab Sample ID: LCS 880-19776/2-A

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |
|----------|-------------|------------|---------------|-------|---|------|--------------|--|
| Chloride | 250         | 256.5      |               | mg/Kg |   | 103  | 90 - 110     |  |

Lab Sample ID: LCSD 880-19776/3-A

Matrix: Solid

Analysis Batch: 19882

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         | 259.0       |                | mg/Kg |   | 104  | 90 - 110     | 1   | 20        |

Lab Sample ID: 890-1938-A-6-M MS

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|
| Chloride | 89.9          |                  | 250         | 327.9     |              | mg/Kg |   | 95   | 90 - 110     |  |

Lab Sample ID: 890-1938-A-6-N MSD

Matrix: Solid

Analysis Batch: 19882

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 89.9          |                  | 250         | 340.5      |               | mg/Kg |   | 100  | 90 - 110     | 4   | 20        |

Eurofins Carlsbad

## QC Association Summary

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

## GC VOA

## Prep Batch: 19707

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-19707/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 19710

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1946-1         | SS01                   | Total/NA  | Solid  | 5035   |            |
| MB 880-19710/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-19710/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-19710/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-1946-1 MS      | SS01                   | Total/NA  | Solid  | 5035   |            |
| 890-1946-1 MSD     | SS01                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 19783

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1946-1         | SS01                   | Total/NA  | Solid  | 8021B  | 19710      |
| MB 880-19707/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 19707      |
| MB 880-19710/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 19710      |
| LCS 880-19710/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 19710      |
| LCSD 880-19710/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 19710      |
| 890-1946-1 MS      | SS01                   | Total/NA  | Solid  | 8021B  | 19710      |
| 890-1946-1 MSD     | SS01                   | Total/NA  | Solid  | 8021B  | 19710      |

## Analysis Batch: 20002

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1946-1    | SS01             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 19555

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-1946-1           | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 19569

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-1946-1           | SS01                   | Total/NA  | Solid  | 8015B NM | 19555      |
| MB 880-19555/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 19555      |
| LCS 880-19555/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 19555      |
| LCSD 880-19555/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 19555      |
| 880-11287-A-38-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 19555      |

## Analysis Batch: 19703

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1946-1    | SS01             | Total/NA  | Solid  | 8015 NM |            |

Eurofins Carlsbad

## QC Association Summary

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

## HPLC/IC

## Leach Batch: 19776

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1946-1         | SS01                   | Soluble   | Solid  | DI Leach |            |
| MB 880-19776/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-19776/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-19776/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-1938-A-6-M MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-1938-A-6-N MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 19882

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1946-1         | SS01                   | Soluble   | Solid  | 300.0  | 19776      |
| MB 880-19776/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 19776      |
| LCS 880-19776/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 19776      |
| LCSD 880-19776/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 19776      |
| 890-1938-A-6-M MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 19776      |
| 890-1938-A-6-N MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 19776      |

Lab Chronicle

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

Client Sample ID: SS01  
Date Collected: 02/14/22 11:58  
Date Received: 02/15/22 09:25

Lab Sample ID: 890-1946-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 19710        | 02/18/22 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 19783        | 02/19/22 12:24       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 20002        | 02/21/22 19:46       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 19703        | 02/17/22 13:29       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 19555        | 02/16/22 08:38       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 19569        | 02/16/22 20:38       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 19776        | 02/17/22 21:54       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20              | 19882        | 02/20/22 20:08       | CH      | XEN MID |

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

Accreditation/Certification Summary

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

Laboratory: Eurofins Midland

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

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

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Method Summary

Client: WSP USA Inc.

Job ID: 890-1946-1

Project/Site: Ross Draw 25 NM Battery

SDG: 31403236.022.0129.task19.02

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

## Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

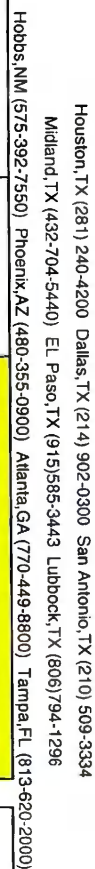
Sample Summary

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

Job ID: 890-1946-1  
SDG: 31403236.022.0129.task19.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1946-1    | SS01             | Solid  | 02/14/22 11:58 | 02/15/22 09:25 | 0.5   |

- 1
- 2
- 3
- 4
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- 7
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- 10
- 11
- 12
- 13
- 14




## Chain of Custody

**Work Order No:**

|                  |  |                      |  |                         |  |   |  |
|------------------|--|----------------------|--|-------------------------|--|---|--|
| Project Manager: |  | Kalei Jennings       |  | Bill to: (if different) |  | Amy Ruth                                    |  |
| Company Name:    |  | WSP USA              |  | Company Name:           |  | XTO Energy                                  |  |
| Address:         |  | 3300 North A Street  |  | Address:                |  | 3104 E Green Street                         |  |
| City, State ZIP: |  | Midland, Texas 79705 |  | City, State ZIP:        |  | Garlsbad, NM 88220                          |  |
| Phone:           |  | 432 704 5178         |  | Email:                  |  | amy.ruth@exxonmobil.com, aimee.cole@wsp.com |  |

|  |  |  |  |
|--|--|--|--|
| <b>Work Order Comments</b>   |  |  |  |
| <b>Program: UST/PST</b> <input type="checkbox"/> RP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> \$perfund <input type="checkbox"/> |  |  |  |
| <b>State of Project:</b>   |  |  |  |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> T/U/ST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>  |  |  |  |
| Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>  |  |  |  |

|   |                              |             |  |  |    |
|---|------------------------------|-------------|--|--|----|
| Project Name:   | Ross Draw 25 NM Battery      | Turn Around | <b>ANALYSIS REQUEST</b><br><br><br>890-1946 Chain of Custody | Work Order Notes<br><br>CC: 1056301001 |    |
| Project Number:   | 31403236.022.0129 Task 19.02 | Routine     |  |  |    |
| P.O. Number:  | NAPP2201444794               | Rush:       |  |  |    |
| Sampler's Name:   | Mercy Rotich.                | Due Date:   |  |  |    |
| <b>SAMPLE RECEIPT</b>   |                              |             |  |  |    |
| Temperature (°C):   | Temp Blank:                  | Yes         | No   | Yes                                    | No |
| Received intact:  | Yes                          | No          | Thermometer ID   |  |    |
| Cooler Custody Seals:   | Yes                          | No          | Correction Factor:   |  |    |
| Sample Custody Seals:   | Yes                          | No          | Total Containers:  |  |    |
| Number of Containers  |                              |             |  |  |    |
| EPA 8015)   |                              |             |  |  |    |
| EPA 0-8021)   |                              |             |  |  |    |
| e (EPA 300.0)   |                              |             |  |  |    |
| TAT starts the day received by the lab, if received by 4:30pm |                              |             |  |  |    |

[illegible]

| Total 200.7 / 6010      | 200.8 / 6020: |  |
|-------------------------|---------------|--|
| 8RCRA                   | 13PPM         | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| TCLP / SPLP 6010: 8RCRA |               | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U   |
|                         |               | 1631 / 245.1 / 7470 / 7471 : Hg  |

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| 1. <i>[Signature]</i>        | <i>[Signature]</i>       | 2-15-22 0925 |                              |                          |           |
| 2.                           |                          |              |                              |                          |           |
| 3.                           |                          |              |                              |                          |           |
| 4.                           |                          |              |                              |                          |           |
| 5.                           |                          |              |                              |                          |           |
| 6.                           |                          |              |                              |                          |           |

Revised Date 05/11/18 Row 2018

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1946-1

SDG Number: 31403236.022.0129.task19.02

Login Number: 1946

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1946-1

SDG Number: 31403236.022.0129.task19.02

Login Number: 1946

List Source: Eurofins Midland

List Number: 2

List Creation: 02/16/22 12:10 PM

Creator: Kramer, Jessica

| 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").  | N/A    |         |



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2319-1

Laboratory Sample Delivery Group: 03E1558028

Client Project/Site: Ross Draw 25 battery

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

Authorized for release by:

5/26/2022 4:17:51 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

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results through



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

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

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Laboratory Job ID: 890-2319-1  
SDG: 03E1558028

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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



## Case Narrative

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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**Job ID: 890-2319-1**

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**Laboratory: Eurofins Carlsbad**

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**Narrative**

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**Job Narrative**  
**890-2319-1**

**Receipt**

The samples were received on 5/18/2022 4:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25961 and analytical batch 880-25945 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SW02 (890-2319-4). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

## Client Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

Client Sample ID: EX01

Lab Sample ID: 890-2319-1

Date Collected: 05/18/22 13:45

Matrix: Solid

Date Received: 05/18/22 16:13

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 14:38 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 14:38 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 14:38 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 14:38 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 14:38 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 14:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 120       |           | 70 - 130 | 05/20/22 15:30 | 05/21/22 14:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 05/20/22 15:30 | 05/21/22 14:38 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 05/23/22 11:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 05/23/22 09:09 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 05/20/22 09:19 | 05/21/22 05:24 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 05/20/22 09:19 | 05/21/22 05:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 05/20/22 09:19 | 05/21/22 05:24 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107       |           | 70 - 130 | 05/20/22 09:19 | 05/21/22 05:24 | 1       |
| o-Terphenyl    | 118       |           | 70 - 130 | 05/20/22 09:19 | 05/21/22 05:24 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 128    |           | 5.00 | mg/Kg |   |          | 05/24/22 16:01 | 1       |

Client Sample ID: EX02

Lab Sample ID: 890-2319-2

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/18/22 16:13

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:05 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:05 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:05 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:05 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:05 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 124       |           | 70 - 130 | 05/20/22 15:30 | 05/21/22 15:05 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

Client Sample ID: EX02

Lab Sample ID: 890-2319-2

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/18/22 16:13

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 95        |           | 70 - 130 | 05/20/22 15:30 | 05/21/22 15:05 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 05/23/22 11:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 05/23/22 09:09 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 05:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 05:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 05:45 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 104       |           | 70 - 130 |       |   | 05/20/22 09:19 | 05/21/22 05:45 | 1       |
| o-Terphenyl                          | 115       |           | 70 - 130 |       |   | 05/20/22 09:19 | 05/21/22 05:45 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 255    |           | 24.8 | mg/Kg |   |          | 05/24/22 16:29 | 5       |

Client Sample ID: SW01

Lab Sample ID: 890-2319-3

Date Collected: 05/18/22 14:15

Matrix: Solid

Date Received: 05/18/22 16:13

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:32 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:32 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:32 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:32 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:32 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 05/20/22 15:30 | 05/21/22 15:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 129       |           | 70 - 130 | 05/20/22 15:30 | 05/21/22 15:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 05/20/22 15:30 | 05/21/22 15:32 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 05/23/22 11:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 05/23/22 09:09 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

Client Sample ID: SW01

Lab Sample ID: 890-2319-3

Date Collected: 05/18/22 14:15

Matrix: Solid

Date Received: 05/18/22 16:13

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 06:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 06:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 06:04 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 104       |           | 70 - 130 |       |   | 05/20/22 09:19 | 05/21/22 06:04 | 1       |
| o-Terphenyl                          | 114       |           | 70 - 130 |       |   | 05/20/22 09:19 | 05/21/22 06:04 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 118    |           | 5.04 | mg/Kg |   |          | 05/26/22 13:04 | 1       |

Client Sample ID: SW02

Lab Sample ID: 890-2319-4

Date Collected: 05/18/22 14:20

Matrix: Solid

Date Received: 05/18/22 16:13

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 126       |           | 70 - 130 |       |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |       |   | 05/20/22 15:30 | 05/21/22 16:00 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 05/23/22 11:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 05/23/22 09:09 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 06:24 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 06:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 05/20/22 09:19 | 05/21/22 06:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 120       |           | 70 - 130 |       |   | 05/20/22 09:19 | 05/21/22 06:24 | 1       |
| o-Terphenyl                          | 133       | S1+       | 70 - 130 |       |   | 05/20/22 09:19 | 05/21/22 06:24 | 1       |

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Client Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

Client Sample ID: SW02

Date Collected: 05/18/22 14:20

Date Received: 05/18/22 16:13

Sample Depth: 2

Lab Sample ID: 890-2319-4

Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 57.5   |           | 4.97 | mg/Kg |   |          | 05/26/22 13:13 | 1       |  |

## Surrogate Summary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2317-A-5-C MS                 | Matrix Spike           | 124  | 92                |
| 890-2317-A-5-D MSD                | Matrix Spike Duplicate | 121  | 82                |
| 890-2319-1                        | EX01                   | 120  | 96                |
| 890-2319-2                        | EX02                   | 124  | 95                |
| 890-2319-3                        | SW01                   | 129  | 97                |
| 890-2319-4                        | SW02                   | 126  | 96                |
| LCS 880-25961/1-A                 | Lab Control Sample     | 116  | 103               |
| LCSD 880-25961/2-A                | Lab Control Sample Dup | 115  | 99                |
| MB 880-25948/5-A                  | Method Blank           | 86   | 88                |
| MB 880-25961/5-A                  | Method Blank           | 89   | 86                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-14972-A-21-F MS     | Matrix Spike           | 105  | 98                |
| 880-14972-A-21-G MSD    | Matrix Spike Duplicate | 101  | 97                |
| 890-2319-1              | EX01                   | 107  | 118               |
| 890-2319-2              | EX02                   | 104  | 115               |
| 890-2319-3              | SW01                   | 104  | 114               |
| 890-2319-4              | SW02                   | 120  | 133 S1+           |
| LCS 880-25960/2-A       | Lab Control Sample     | 89   | 89                |
| LCSD 880-25960/3-A      | Lab Control Sample Dup | 116  | 116               |
| MB 880-25960/1-A        | Method Blank           | 114  | 126               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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

Lab Sample ID: MB 880-25948/5-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25948

| Analyte             | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| Benzene             | <0.000400 | U            | 0.000400 | mg/Kg |   | 05/20/22 09:18 | 05/20/22 17:07 | 1       |
| Toluene             | <0.000400 | U            | 0.000400 | mg/Kg |   | 05/20/22 09:18 | 05/20/22 17:07 | 1       |
| Ethylbenzene        | <0.000400 | U            | 0.000400 | mg/Kg |   | 05/20/22 09:18 | 05/20/22 17:07 | 1       |
| m-Xylene & p-Xylene | <0.000800 | U            | 0.000800 | mg/Kg |   | 05/20/22 09:18 | 05/20/22 17:07 | 1       |
| o-Xylene            | <0.000400 | U            | 0.000400 | mg/Kg |   | 05/20/22 09:18 | 05/20/22 17:07 | 1       |
| Xylenes, Total      | <0.000800 | U            | 0.000800 | mg/Kg |   | 05/20/22 09:18 | 05/20/22 17:07 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86           |              | 70 - 130 | 05/20/22 09:18 | 05/20/22 17:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88           |              | 70 - 130 | 05/20/22 09:18 | 05/20/22 17:07 | 1       |

Lab Sample ID: MB 880-25961/5-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25961

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 05/20/22 09:25 | 05/21/22 06:40 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 05/20/22 09:25 | 05/21/22 06:40 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 05/20/22 09:25 | 05/21/22 06:40 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 05/20/22 09:25 | 05/21/22 06:40 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 05/20/22 09:25 | 05/21/22 06:40 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 05/20/22 09:25 | 05/21/22 06:40 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89           |              | 70 - 130 | 05/20/22 09:25 | 05/21/22 06:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86           |              | 70 - 130 | 05/20/22 09:25 | 05/21/22 06:40 | 1       |

Lab Sample ID: LCS 880-25961/1-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25961

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1251     |               | mg/Kg |   | 125  | 70 - 130    |
| Toluene             | 0.100       | 0.1152     |               | mg/Kg |   | 115  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1121     |               | mg/Kg |   | 112  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2264     |               | mg/Kg |   | 113  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1126     |               | mg/Kg |   | 113  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 116           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103           |               | 70 - 130 |

Lab Sample ID: LCSD 880-25961/2-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25961

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.1109      |                | mg/Kg |   | 111  | 70 - 130    | 12  | 35        |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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

Lab Sample ID: LCSD 880-25961/2-A

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25961

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.09968     |                | mg/Kg |   | 100  | 70 - 130    | 14  | 35        |
| Ethylbenzene        | 0.100       | 0.1006      |                | mg/Kg |   | 101  | 70 - 130    | 11  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2035      |                | mg/Kg |   | 102  | 70 - 130    | 11  | 35        |
| o-Xylene            | 0.100       | 0.1018      |                | mg/Kg |   | 102  | 70 - 130    | 10  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 115            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99             |                | 70 - 130 |

Lab Sample ID: 890-2317-A-5-C MS

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25961

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00199      | U F2 F1          | 0.100       | 0.02880   | F1           | mg/Kg |   | 29   | 70 - 130    |
| Toluene             | <0.00199      | U F2 F1          | 0.100       | 0.03226   | F1           | mg/Kg |   | 32   | 70 - 130    |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.100       | 0.03096   | F1           | mg/Kg |   | 31   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.200       | 0.06426   | F1           | mg/Kg |   | 32   | 70 - 130    |
| o-Xylene            | <0.00199      | U F2 F1          | 0.100       | 0.03583   | F1           | mg/Kg |   | 36   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 124          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 92           |              | 70 - 130 |

Lab Sample ID: 890-2317-A-5-D MSD

Matrix: Solid

Analysis Batch: 25945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25961

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00199      | U F2 F1          | 0.101       | 0.09361    | F2            | mg/Kg |   | 93   | 70 - 130    | 106 | 35        |
| Toluene             | <0.00199      | U F2 F1          | 0.101       | 0.09356    | F2            | mg/Kg |   | 93   | 70 - 130    | 97  | 35        |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.101       | 0.08576    | F2            | mg/Kg |   | 85   | 70 - 130    | 94  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.202       | 0.1698     | F2            | mg/Kg |   | 84   | 70 - 130    | 90  | 35        |
| o-Xylene            | <0.00199      | U F2 F1          | 0.101       | 0.08523    | F2            | mg/Kg |   | 84   | 70 - 130    | 82  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 82            |               | 70 - 130 |

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

Lab Sample ID: MB 880-25960/1-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25960

| 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 |   | 05/20/22 09:19 | 05/20/22 22:11 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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

Lab Sample ID: MB 880-25960/1-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25960

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/20/22 22:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 05/20/22 09:19 | 05/20/22 22:11 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 114             |                 | 70 - 130 |       |   | 05/20/22 09:19 | 05/20/22 22:11 | 1       |
| o-Terphenyl                          | 126             |                 | 70 - 130 |       |   | 05/20/22 09:19 | 05/20/22 22:11 | 1       |

Lab Sample ID: LCS 880-25960/2-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25960

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1081             |                  | mg/Kg |   | 108  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 857.0            |                  | mg/Kg |   | 86   | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 89               |                  | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 89               |                  | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-25960/3-A

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25960

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 1191              |                   | mg/Kg |   | 119  | 70 - 130       | 10  | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 1019              |                   | mg/Kg |   | 102  | 70 - 130       | 17  | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 116               |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 116               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 880-14972-A-21-F MS

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25960

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                   | 1000           | 1099         |                 | mg/Kg |   | 107  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                   | 1000           | 780.4        |                 | mg/Kg |   | 78   | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 105              |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 98               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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

Lab Sample ID: 880-14972-A-21-G MSD

Matrix: Solid

Analysis Batch: 25938

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25960

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0         | U                | 999         | 948.0      |               | mg/Kg |   | 92   | 70 - 130    | 15  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.0         | U                | 999         | 759.9      |               | mg/Kg |   | 76   | 70 - 130    | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 101           |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 97            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25907/1-A

Matrix: Solid

Analysis Batch: 26071

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 |   |          | 05/24/22 13:24 | 1       |

Lab Sample ID: LCS 880-25907/2-A

Matrix: Solid

Analysis Batch: 26071

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 256.5      |               | mg/Kg |   | 103  | 90 - 110    |

Lab Sample ID: LCSD 880-25907/3-A

Matrix: Solid

Analysis Batch: 26071

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         | 250.1       |                | mg/Kg |   | 100  | 90 - 110    | 3   | 20        |

Lab Sample ID: 890-2319-1 MS

Matrix: Solid

Analysis Batch: 26071

Client Sample ID: EX01

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 128           |                  | 250         | 384.6     |              | mg/Kg |   | 103  | 90 - 110    |

Lab Sample ID: 890-2319-1 MSD

Matrix: Solid

Analysis Batch: 26071

Client Sample ID: EX01

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 128           |                  | 250         | 391.2      |               | mg/Kg |   | 105  | 90 - 110    | 2   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

## GC VOA

## Analysis Batch: 25945

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2319-1         | EX01                   | Total/NA  | Solid  | 8021B  | 25961      |
| 890-2319-2         | EX02                   | Total/NA  | Solid  | 8021B  | 25961      |
| 890-2319-3         | SW01                   | Total/NA  | Solid  | 8021B  | 25961      |
| 890-2319-4         | SW02                   | Total/NA  | Solid  | 8021B  | 25961      |
| MB 880-25948/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25948      |
| MB 880-25961/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 25961      |
| LCS 880-25961/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 25961      |
| LCSD 880-25961/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 25961      |
| 890-2317-A-5-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 25961      |
| 890-2317-A-5-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 25961      |

## Prep Batch: 25948

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-25948/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 25961

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2319-1         | EX01                   | Total/NA  | Solid  | 5035   |            |
| 890-2319-2         | EX02                   | Total/NA  | Solid  | 5035   |            |
| 890-2319-3         | SW01                   | Total/NA  | Solid  | 5035   |            |
| 890-2319-4         | SW02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-25961/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-25961/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-25961/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2317-A-5-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2317-A-5-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 26096

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2319-1    | EX01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2319-2    | EX02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2319-3    | SW01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2319-4    | SW02             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 25938

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-2319-1           | EX01                   | Total/NA  | Solid  | 8015B NM | 25960      |
| 890-2319-2           | EX02                   | Total/NA  | Solid  | 8015B NM | 25960      |
| 890-2319-3           | SW01                   | Total/NA  | Solid  | 8015B NM | 25960      |
| 890-2319-4           | SW02                   | Total/NA  | Solid  | 8015B NM | 25960      |
| MB 880-25960/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 25960      |
| LCS 880-25960/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 25960      |
| LCSD 880-25960/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 25960      |
| 880-14972-A-21-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 25960      |
| 880-14972-A-21-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 25960      |

## Prep Batch: 25960

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-2319-1    | EX01             | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

## GC Semi VOA (Continued)

## Prep Batch: 25960 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-2319-2           | EX02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2319-3           | SW01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2319-4           | SW02                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-25960/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-25960/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-25960/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14972-A-21-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-14972-A-21-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 26035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2319-1    | EX01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2319-2    | EX02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2319-3    | SW01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2319-4    | SW02             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 25907

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2319-1         | EX01                   | Soluble   | Solid  | DI Leach |            |
| 890-2319-2         | EX02                   | Soluble   | Solid  | DI Leach |            |
| 890-2319-3         | SW01                   | Soluble   | Solid  | DI Leach |            |
| 890-2319-4         | SW02                   | Soluble   | Solid  | DI Leach |            |
| MB 880-25907/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-25907/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-25907/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2319-1 MS      | EX01                   | Soluble   | Solid  | DI Leach |            |
| 890-2319-1 MSD     | EX01                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 26071

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2319-1         | EX01                   | Soluble   | Solid  | 300.0  | 25907      |
| 890-2319-2         | EX02                   | Soluble   | Solid  | 300.0  | 25907      |
| 890-2319-3         | SW01                   | Soluble   | Solid  | 300.0  | 25907      |
| 890-2319-4         | SW02                   | Soluble   | Solid  | 300.0  | 25907      |
| MB 880-25907/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 25907      |
| LCS 880-25907/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 25907      |
| LCSD 880-25907/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 25907      |
| 890-2319-1 MS      | EX01                   | Soluble   | Solid  | 300.0  | 25907      |
| 890-2319-1 MSD     | EX01                   | Soluble   | Solid  | 300.0  | 25907      |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

Client Sample ID: EX01

Lab Sample ID: 890-2319-1

Date Collected: 05/18/22 13:45

Matrix: Solid

Date Received: 05/18/22 16:13

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 25961        | 05/20/22 15:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25945        | 05/21/22 14:38       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26096        | 05/23/22 11:27       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26035        | 05/23/22 09:09       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 25960        | 05/20/22 09:19       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25938        | 05/21/22 05:24       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 25907        | 05/20/22 12:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26071        | 05/24/22 16:01       | CH      | XEN MID |

Client Sample ID: EX02

Lab Sample ID: 890-2319-2

Date Collected: 05/18/22 14:00

Matrix: Solid

Date Received: 05/18/22 16:13

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 25961        | 05/20/22 15:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25945        | 05/21/22 15:05       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26096        | 05/23/22 11:27       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26035        | 05/23/22 09:09       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 25960        | 05/20/22 09:19       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25938        | 05/21/22 05:45       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 25907        | 05/20/22 12:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 26071        | 05/24/22 16:29       | CH      | XEN MID |

Client Sample ID: SW01

Lab Sample ID: 890-2319-3

Date Collected: 05/18/22 14:15

Matrix: Solid

Date Received: 05/18/22 16:13

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 25961        | 05/20/22 15:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25945        | 05/21/22 15:32       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26096        | 05/23/22 11:27       | SM      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26035        | 05/23/22 09:09       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 25960        | 05/20/22 09:19       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25938        | 05/21/22 06:04       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 25907        | 05/20/22 12:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26071        | 05/26/22 13:04       | CH      | XEN MID |

Client Sample ID: SW02

Lab Sample ID: 890-2319-4

Date Collected: 05/18/22 14:20

Matrix: Solid

Date Received: 05/18/22 16:13

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 25961        | 05/20/22 15:30       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          |                |              | 25945        | 05/21/22 16:00       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 26096        | 05/23/22 11:27       | SM      | XEN MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

Client Sample ID: SW02      Lab Sample ID: 890-2319-4  
Date Collected: 05/18/22 14:20      Matrix: Solid  
Date Received: 05/18/22 16:13

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 26035        | 05/23/22 09:09       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 25960        | 05/20/22 09:19       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 25938        | 05/21/22 06:24       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 25907        | 05/20/22 12:45       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 26071        | 05/26/22 13:13       | CH      | XEN MID |

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

### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

#### Laboratory: Eurofins Midland

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

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

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

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

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## Method Summary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



Sample Summary

Client: Ensolum  
Project/Site: Ross Draw 25 battery

Job ID: 890-2319-1  
SDG: 03E1558028

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2319-1    | EX01             | Solid  | 05/18/22 13:45 | 05/18/22 16:13 | 2     |
| 890-2319-2    | EX02             | Solid  | 05/18/22 14:00 | 05/18/22 16:13 | 2     |
| 890-2319-3    | SW01             | Solid  | 05/18/22 14:15 | 05/18/22 16:13 | 2     |
| 890-2319-4    | SW02             | Solid  | 05/18/22 14:20 | 05/18/22 16:13 | 2     |

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## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing  
Xenco

Work Order No:

www.xenco.com Page 1 of 1

|                  |                        |                         |                       |
|------------------|------------------------|-------------------------|-----------------------|
| Project Manager: | Kalei Jennings         | Bill to: (if different) | Adrian Baker          |
| Company Name:    | EnSolum                | Company Name:           | XTO Energy            |
| Address:         | 3122 National Park Hwy | Address:                | 3104 E. Green St.     |
| City, State ZIP: | Carlsbad, NM 88220     | City, State ZIP:        | Carlsbad, NM 88220    |
| Phone:           | 817-683-2503           | Email:                  | Kjennings@ensolum.com |

|                          |   |   |   |            |  |
|--------------------------|---|---|---|------------|--|
| Project Name:            | Ross Draw 25 Battery  | Turn Around   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code |  |
| Project Number:          | 03E1558028  | Due Date:   | 5 Day   |            |  |
| Project Location:        | Eddy County, NM   | TAT starts the day received by the lab, if received by 4:30pm |   |            |  |
| Sampler's Name:          | Eric Carroll  | Wet Ice:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No       |            |  |
| PO #:                    |   | Thermometer ID:   | T-11-m-m  |            |  |
| SAMPLE RECEIPT           |   | Correction Factor:  | -0.2  |            |  |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading:  | 5.2   |            |  |
| Cooler Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Corrected Temperature:  | 5.0   |            |  |
| Sample Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |   |            |  |
| Total Containers:        |   |   |   |            |  |

|  |   |                                |   |
|--|---|--------------------------------|---|
| Total 2007/6010                              | 2008/6020:  | 8RCRA 13PPM Texas 11           | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Hg: 1631 / 245.1 / 7470 / 7471 |   |

|                              |                          |                              |                          |
|------------------------------|--------------------------|------------------------------|--------------------------|
| Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
| Eric Carroll                 | [Signature]              |                              |                          |

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2319-1

SDG Number: 03E1558028

Login Number: 2319

List Number: 1

Creator: Olivas, Nathaniel

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: Ensolum

Job Number: 890-2319-1

SDG Number: 03E1558028

Login Number: 2319

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/20/22 10:39 AM

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



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2717-1

Laboratory Sample Delivery Group: 03E1558028

Client Project/Site: Ross Draw 25

**For:**

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

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

Authorized for release by:

8/11/2022 10:43:18 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: Ross Draw 25

Laboratory Job ID: 890-2717-1  
SDG: 03E1558028

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| *1        | LCS/LCSD RPD exceeds control limits.                     |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

**Job ID: 890-2717-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2717-1****Receipt**

The sample was received on 8/3/2022 2:47 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 25.6°C

**Receipt Exceptions**

The following sample was received at the laboratory outside the required temperature criteria: SW03 (890-2717-1). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE\_ONE> proceed with/cancel analysis. Sample received out of temp range, client notified and wished to proceed with sampling.

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-31570/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-31570 and analytical batch 880-31633 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31833 and analytical batch 880-31871 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits. MSD misinjected.

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



## Client Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

Client Sample ID: SW03

Lab Sample ID: 890-2717-1

Date Collected: 08/03/22 10:00

Matrix: Solid

Date Received: 08/03/22 14:47

Sample Depth: 0.2'

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:30 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:30 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:30 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:30 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:30 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:30 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 08/09/22 14:20 | 08/10/22 23:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89        |           | 70 - 130 | 08/09/22 14:20 | 08/10/22 23:30 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 08/11/22 10:57 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 08/08/22 11:44 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U *1      | 50.0 | mg/Kg |   | 08/05/22 10:50 | 08/06/22 13:26 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 08/05/22 10:50 | 08/06/22 13:26 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 08/05/22 10:50 | 08/06/22 13:26 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88        |           | 70 - 130 | 08/05/22 10:50 | 08/06/22 13:26 | 1       |
| o-Terphenyl    | 99        |           | 70 - 130 | 08/05/22 10:50 | 08/06/22 13:26 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 37.7   | F1 F2     | 4.98 | mg/Kg |   |          | 08/09/22 20:31 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2717-1                        | SW03                   | 112  | 89                |
| 890-2717-1 MS                     | SW03                   | 104  | 93                |
| 890-2717-1 MSD                    | SW03                   | 103  | 94                |
| LCS 880-31852/1-A                 | Lab Control Sample     | 104  | 93                |
| LCSD 880-31852/2-A                | Lab Control Sample Dup | 117  | 93                |
| MB 880-31852/5-A                  | Method Blank           | 100  | 87                |
| MB 880-31859/5-A                  | Method Blank           | 99   | 88                |
| <b>Surrogate Legend</b>           |                        |  |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2712-A-1-C MS       | Matrix Spike           | 77   | 85                |
| 890-2712-A-1-D MSD      | Matrix Spike Duplicate | 92   | 101               |
| 890-2717-1              | SW03                   | 88   | 99                |
| LCS 880-31570/2-A       | Lab Control Sample     | 135 S1+  | 133 S1+           |
| LCSD 880-31570/3-A      | Lab Control Sample Dup | 111  | 130               |
| MB 880-31570/1-A        | Method Blank           | 91   | 105               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

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

Lab Sample ID: MB 880-31852/5-A

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31852

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:09 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:09 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:09 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:09 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:09 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/09/22 14:20 | 08/10/22 23:09 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 70 - 130 | 08/09/22 14:20 | 08/10/22 23:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 87           |              | 70 - 130 | 08/09/22 14:20 | 08/10/22 23:09 | 1       |

Lab Sample ID: LCS 880-31852/1-A

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31852

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.07639    |               | mg/Kg |   | 76   | 70 - 130    |
| Toluene             | 0.100       | 0.07711    |               | mg/Kg |   | 77   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08089    |               | mg/Kg |   | 81   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1645     |               | mg/Kg |   | 82   | 70 - 130    |
| o-Xylene            | 0.100       | 0.09143    |               | mg/Kg |   | 91   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

Lab Sample ID: LCSD 880-31852/2-A

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31852

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.07451     |                | mg/Kg |   | 75   | 70 - 130    | 2   | 35        |
| Toluene             | 0.100       | 0.07796     |                | mg/Kg |   | 78   | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.08436     |                | mg/Kg |   | 84   | 70 - 130    | 4   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1738      |                | mg/Kg |   | 87   | 70 - 130    | 6   | 35        |
| o-Xylene            | 0.100       | 0.09756     |                | mg/Kg |   | 98   | 70 - 130    | 6   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 117            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93             |                | 70 - 130 |

Lab Sample ID: 890-2717-1 MS

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: SW03

Prep Type: Total/NA

Prep Batch: 31852

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00201      | U                | 0.100       | 0.09566   |              | mg/Kg |   | 95   | 70 - 130    |
| Toluene | <0.00201      | U                | 0.100       | 0.09695   |              | mg/Kg |   | 96   | 70 - 130    |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

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

Lab Sample ID: 890-2717-1 MS

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: SW03

Prep Type: Total/NA

Prep Batch: 31852

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00201      | U                | 0.100       | 0.1007    |              | mg/Kg |   | 100  | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.201       | 0.2015    |              | mg/Kg |   | 100  | 70 - 130    |
| o-Xylene            | <0.00201      | U                | 0.100       | 0.1109    |              | mg/Kg |   | 110  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 |

Lab Sample ID: 890-2717-1 MSD

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: SW03

Prep Type: Total/NA

Prep Batch: 31852

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00201      | U                | 0.0998      | 0.09159    |               | mg/Kg |   | 92   | 70 - 130    | 4   | 35        |
| Toluene             | <0.00201      | U                | 0.0998      | 0.09133    |               | mg/Kg |   | 91   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | <0.00201      | U                | 0.0998      | 0.09450    |               | mg/Kg |   | 95   | 70 - 130    | 6   | 35        |
| m-Xylene & p-Xylene | <0.00402      | U                | 0.200       | 0.1903     |               | mg/Kg |   | 95   | 70 - 130    | 6   | 35        |
| o-Xylene            | <0.00201      | U                | 0.0998      | 0.1047     |               | mg/Kg |   | 105  | 70 - 130    | 6   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 94            |               | 70 - 130 |

Lab Sample ID: MB 880-31859/5-A

Matrix: Solid

Analysis Batch: 31883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31859

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 15:44 | 08/10/22 12:32 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 15:44 | 08/10/22 12:32 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 15:44 | 08/10/22 12:32 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/09/22 15:44 | 08/10/22 12:32 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/09/22 15:44 | 08/10/22 12:32 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/09/22 15:44 | 08/10/22 12:32 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 08/09/22 15:44 | 08/10/22 12:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88           |              | 70 - 130 | 08/09/22 15:44 | 08/10/22 12:32 | 1       |

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

Lab Sample ID: MB 880-31570/1-A

Matrix: Solid

Analysis Batch: 31633

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31570

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 08/05/22 10:50 | 08/06/22 10:56 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

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

Lab Sample ID: MB 880-31570/1-A

Matrix: Solid

Analysis Batch: 31633

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31570

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 08/05/22 10:50 | 08/06/22 10:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 08/05/22 10:50 | 08/06/22 10:56 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 91              |                 | 70 - 130 |       |   | 08/05/22 10:50 | 08/06/22 10:56 | 1       |
| o-Terphenyl                          | 105             |                 | 70 - 130 |       |   | 08/05/22 10:50 | 08/06/22 10:56 | 1       |

Lab Sample ID: LCS 880-31570/2-A

Matrix: Solid

Analysis Batch: 31633

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31570

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1077             |                  | mg/Kg |   | 108  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 1004             |                  | mg/Kg |   | 100  | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 135              | S1+              | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 133              | S1+              | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-31570/3-A

Matrix: Solid

Analysis Batch: 31633

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31570

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 860.0             | *1                | mg/Kg |   | 86   | 70 - 130       | 22  | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 967.6             |                   | mg/Kg |   | 97   | 70 - 130       | 4   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 111               |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 130               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 890-2712-A-1-C MS

Matrix: Solid

Analysis Batch: 31633

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31570

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U *1                | 999            | 994.7        |                 | mg/Kg |   | 100  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                   | 999            | 709.9        |                 | mg/Kg |   | 71   | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 77               |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 85               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

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

Lab Sample ID: 890-2712-A-1-D MSD

Matrix: Solid

Analysis Batch: 31633

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31570

| 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 *1             | 999         | 840.2      |               | mg/Kg |   | 84   | 70 - 130    | 17  | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 999         | 843.5      |               | mg/Kg |   | 84   | 70 - 130    | 17  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 92            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 101           |                  | 70 - 130    |            |               |       |   |      |             |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31833/1-A

Matrix: Solid

Analysis Batch: 31871

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 08/09/22 18:22 | 1       |

Lab Sample ID: LCS 880-31833/2-A

Matrix: Solid

Analysis Batch: 31871

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 231.7      |               | mg/Kg |   | 93   | 90 - 110    |

Lab Sample ID: LCSD 880-31833/3-A

Matrix: Solid

Analysis Batch: 31871

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         | 236.1       |                | mg/Kg |   | 94   | 90 - 110    | 2   | 20        |

Lab Sample ID: 880-17783-A-1-E MS

Matrix: Solid

Analysis Batch: 31871

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 53.2          | F1               | 250         | 601.4     | F1           | mg/Kg |   | 220  | 90 - 110    |

Lab Sample ID: 880-17783-A-1-F MSD

Matrix: Solid

Analysis Batch: 31871

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 53.2          | F1               | 250         | 593.2      | F1            | mg/Kg |   | 216  | 90 - 110    | 1   | 20        |

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QC Sample Results

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2717-1 MS

Matrix: Solid

Analysis Batch: 31871

Client Sample ID: SW03

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 37.7          | F1 F2            | 498         | 586.9     |              | mg/Kg |   | 110  | 90 - 110    |

Lab Sample ID: 890-2717-1 MSD

Matrix: Solid

Analysis Batch: 31871

Client Sample ID: SW03

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 37.7          | F1 F2            | 498         | 34.88      | F1 F2         | mg/Kg |   | -0.6 | 90 - 110    | 178 | 20        |

## QC Association Summary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

## GC VOA

## Prep Batch: 31852

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2717-1         | SW03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-31852/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-31852/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-31852/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2717-1 MS      | SW03                   | Total/NA  | Solid  | 5035   |            |
| 890-2717-1 MSD     | SW03                   | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 31859

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-31859/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 31883

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2717-1         | SW03                   | Total/NA  | Solid  | 8021B  | 31852      |
| MB 880-31852/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 31852      |
| MB 880-31859/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 31859      |
| LCS 880-31852/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 31852      |
| LCSD 880-31852/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 31852      |
| 890-2717-1 MS      | SW03                   | Total/NA  | Solid  | 8021B  | 31852      |
| 890-2717-1 MSD     | SW03                   | Total/NA  | Solid  | 8021B  | 31852      |

## Analysis Batch: 31991

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2717-1    | SW03             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 31570

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2717-1         | SW03                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-31570/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-31570/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-31570/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2712-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2712-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 31633

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2717-1         | SW03                   | Total/NA  | Solid  | 8015B NM | 31570      |
| MB 880-31570/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 31570      |
| LCS 880-31570/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 31570      |
| LCSD 880-31570/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 31570      |
| 890-2712-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 31570      |
| 890-2712-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 31570      |

## Analysis Batch: 31744

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2717-1    | SW03             | Total/NA  | Solid  | 8015 NM |            |

Eurofins Carlsbad



## QC Association Summary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

## HPLC/IC

## Leach Batch: 31833

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2717-1          | SW03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-31833/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-31833/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-31833/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-17783-A-1-E MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-17783-A-1-F MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |
| 890-2717-1 MS       | SW03                   | Soluble   | Solid  | DI Leach |            |
| 890-2717-1 MSD      | SW03                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 31871

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2717-1          | SW03                   | Soluble   | Solid  | 300.0  | 31833      |
| MB 880-31833/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 31833      |
| LCS 880-31833/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 31833      |
| LCSD 880-31833/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 31833      |
| 880-17783-A-1-E MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 31833      |
| 880-17783-A-1-F MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 31833      |
| 890-2717-1 MS       | SW03                   | Soluble   | Solid  | 300.0  | 31833      |
| 890-2717-1 MSD      | SW03                   | Soluble   | Solid  | 300.0  | 31833      |

Lab Chronicle

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

Client Sample ID: SW03  
Date Collected: 08/03/22 10:00  
Date Received: 08/03/22 14:47

Lab Sample ID: 890-2717-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 31852        | 08/09/22 14:20       | MR      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 31883        | 08/10/22 23:30       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 31991        | 08/11/22 10:57       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 31744        | 08/08/22 11:44       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 31570        | 08/05/22 10:50       | DM      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 31633        | 08/06/22 13:26       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 31833        | 08/09/22 08:39       | AJ      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 31871        | 08/09/22 20:31       | CH      | EET MID |

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-22-24      | 06-30-23        |

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

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

## Method Summary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Sample Summary

Client: Ensolum  
Project/Site: Ross Draw 25

Job ID: 890-2717-1  
SDG: 03E1558028

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2717-1    | SW03             | Solid  | 08/03/22 10:00 | 08/03/22 14:47 | 0.2'  |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1



|                  |                                |                         |                              |
|------------------|--------------------------------|-------------------------|------------------------------|
| Project Manager: | <i>Heidi Jennings</i>          | Bill to: (if different) | <i>Carroll Green</i>         |
| Company Name:    | <i>Ensolum</i>                 | Company Name:           | <i>XTO Energy</i>            |
| Address:         | <i>3122 National Parks Hwy</i> | Address:                | <i>3104 E Green St</i>       |
| City, State ZIP: | <i>Carlsbad NM 88220</i>       | City, State ZIP:        | <i>Carlsbad NM 88220</i>     |
| Phone:           | <i>817-683-2503</i>            | Email:                  | <i>Kjennings@ensolum.com</i> |

| Work Order Comments |                                   |                                    |                                      |   |
|---------------------|-----------------------------------|------------------------------------|--------------------------------------|---|
| Program:            | UST/PST <input type="checkbox"/>  | PRP <input type="checkbox"/>       | Brownfields <input type="checkbox"/> | RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project:   |                                   |                                    |                                      |   |
| Reporting:          | Level II <input type="checkbox"/> | Level III <input type="checkbox"/> | PST/UST <input type="checkbox"/>     | TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables:       | EDD <input type="checkbox"/>      | ADAPT <input type="checkbox"/>     | Other: _____                         |   |

[illegible][illegible]

| Total 200.7 / 6010                           | 200.8 / 6020:            |   |
|--|--------------------------|---|
|  | 8RCRA                    | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |
|  | 13PPM Texas 11           |   |
| Circle Method(s) and Metal(s) to be analyzed | TCLP / SPLP 6010 : 8RCRA | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  |
|  |                          | Hg: 1631 / 245.1 / 77470 / 77471  |

Notice: Signature of this document by customer constitutes a valid purchase order from client company to Eurofins Xerco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerco 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 service. Eurofins Xerco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xerco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature)  | Received by: (Signature)   | Date/Time   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|--|-------------|------------------------------|--------------------------|-----------|
|  |  | 8/3/22 1447 |                              |                          |           |
|   |  |             |                              |                          |           |
|   |  |             |                              |                          |           |
|   |  |             |                              |                          |           |
|   |  |             |                              |                          |           |

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2717-1

SDG Number: 03E1558028

Login Number: 2717

List Number: 1

Creator: Stutzman, Amanda

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: Ensolum

Job Number: 890-2717-1

SDG Number: 03E1558028

Login Number: 2717

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/05/22 10:35 AM

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



**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 152320

CONDITIONS

|   |   |
|---|---|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380  |
|   | Action Number:<br><br>152320                                  |
|   | Action Type:<br><br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon   | None      | 1/13/2023      |