

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	NAPP2128451743
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 32.31862 Longitude -103.93613  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Nash Unit 43H	Site Type Production Well
Date Release Discovered 10/03/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	12	23S	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) 2.67	Volume Recovered (bbls) 2.40
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 14.04	Volume Recovered (bbls) 12.60
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release The packing on the stuffing box leaked, releasing fluids onto the pad. A vacuum truck was dispatched and recovered all standing fluids, including rainwater from recent weather events. A third-party contractor has been retained for remediation activities.

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

### Initial Response

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

<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: 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 Pennington	Title: Environmental Manager
Signature: 	Date: 10/11/21
email: shelby.g.pennington@exxonmobil.com	Telephone: 281-723-9353
<b><u>OCD Only</u></b>	
Received by: Ramona Marcus	Date: 10/12/2021

<b>Location:</b>	<b>Nash Unit 43H</b>	
<b>Spill Date:</b>	<b>10/3/2021</b>	
<b>Area 1</b>		
Approximate Area =	5138.00	sq. ft.
Average Saturation (or depth) of spill =	0.75	inches
Average Porosity Factor =	0.03	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =	2.67	bbls
Total Produced Water =	14.04	bbls

<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	2.67	bbls
Total Produced Water =	14.04	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	2.40	bbls
Total Produced Water =	12.60	bbls

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input 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

Incident ID	NAPP2128451743
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: \_\_\_\_\_ Adrian Baker \_\_\_\_\_

Title: \_\_\_\_\_ Environmental Coordinator \_\_\_\_\_

Signature: \_\_\_\_\_  


Date: \_\_\_\_\_ 01/01/2022 \_\_\_\_\_

Email: \_\_\_\_\_ adrian.baker@exxonmobil.com \_\_\_\_\_

Telephone: \_\_\_\_\_ 432-236-3808 \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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## Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: \_\_\_\_\_ Adrian Baker \_\_\_\_\_ Title: \_\_\_\_\_ Environmental Coordinator \_\_\_\_\_

Signature: \_\_\_\_\_  \_\_\_\_\_ Date: \_\_\_\_\_ 01/01/2022 \_\_\_\_\_

Email: \_\_\_\_\_ adrian.baker@exxonmobil.com \_\_\_\_\_ Telephone: \_\_\_\_\_ 432-236-3808 \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Chad Hensley \_\_\_\_\_ Date: \_\_\_\_\_ 02/18/2022 \_\_\_\_\_

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

Signature: \_\_\_\_\_  \_\_\_\_\_ Date: \_\_\_\_\_ 02/18/2022 \_\_\_\_\_

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

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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 69763

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 69763
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	The OCD does NOT approve the background chloride concentration of 30,200 mg/kg as closure criteria.	2/18/2022
chensley	The OCD will accept closure for chlorides at 20,000.	2/18/2022
chensley	Closure report due 04/18/2022.	2/18/2022

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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: \_\_\_\_\_ Adrian Baker \_\_\_\_\_ Title: \_\_\_\_\_ Environmental Coordinator \_\_\_\_\_

Signature: Adrian Baker \_\_\_\_\_ Date: \_\_\_\_\_ 04/18/2022 \_\_\_\_\_

email: \_\_\_\_\_ adrian.baker@exxonmobil.com \_\_\_\_\_ Telephone: \_\_\_\_\_ (432)-236-3808 \_\_\_\_\_

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Jennifer Nobui \_\_\_\_\_ Date: 04/26/2022 \_\_\_\_\_

Printed Name: Jennifer Nobui \_\_\_\_\_ Title: Environmental Specialist A \_\_\_\_\_





**WSP USA**

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

April 18, 2022

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

**Re: Closure Request  
Nash Unit 43H  
Incident Number NAPP2128451743  
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request as a follow up to the approved Remediation Work Plan (Work Plan) that was submitted to the New Mexico Oil Conservation Division (NMOCD) on January 1, 2022. This Closure Request details excavation activities completed at the Nash Unit 43H (Site) located in Unit J, Section 12, Township 23 South, Range 29 East, in Eddy County, New Mexico following NMOCD approval of the Work Plan. Based on the excavation and soil sampling activities described below, XTO is requesting no further action (NFA) for Incident Number NAPP2128451743.

## **BACKGROUND**

On October 3, 2021, the packing on the stuffing box leaked, resulting in the release of 2.67 barrels (bbls) of crude oil and 14.04 bbls of produced water onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 2.40 bbls of crude oil and 12.60 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on October 11, 2021. The release was assigned Incident Number NAPP2128451743.

Following delineation of the release extent and collection of background soil samples, XTO submitted a Work Plan to the NMOCD. The Work Plan detailed the delineation activities, and proposed excavation of impacted soil to below the Site Closure Criteria for hydrocarbons and to below a background chloride concentration of 42,300 mg/kg, based on proximity to the salt lake. Due to the estimated excavation size, the Work Plan also requested a sampling variance for the frequency of excavation confirmation samples to every 500 square feet.



The Work Plan was approved by NMOCD on February 18, 2022, with the following conditions of approval:

- *The OCD does NOT approve the background chloride concentration of 42,300 mg/kg as closure criteria.*
- *The OCD will accept closure for chlorides at 20,000.*
- *Closure report due 04/18/2022.*

## **CLOSURE CRITERIA**

The Work Plan detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Based on the site characterization, the following Closure Criteria applied:

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

## **EXCAVATION AND SOIL SAMPLING ACTIVITIES**

On December 9, 2021, WSP personnel returned to Site to oversee excavation of impacted soil as outlined in the approved Work Plan. A background chloride concentration of 20,000 mg/kg chloride was applied to the Site in accordance with the NMOCD conditions of approval.

Excavation activities were completed using a track-mounted backhoe. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a photo ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, WSP collected 5-point composite soil samples at a frequency of at least every 500 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor soil samples FS01 through FS20 were collected from the floor of the excavation from a depth of 0.5 feet bgs. Due to the shallow 0.5-foot depth of the excavation, the floor samples were also representative of the sidewalls. The excavation extent and excavation soil sample locations are presented on Figure 1. Photographic documentation of the excavation activities is included in Attachment 1.

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



District II

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

The excavation area measured approximately 9,275 square feet. A total of approximately 170 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

### SOIL ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS20 indicated that benzene, BTEX, and TPH concentrations were compliant with the Site Closure Criteria and chloride concentrations were compliant with the NMOCD approved background chloride concentration of 20,000 mg/kg. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Attachment 2.

### CLOSURE REQUEST

Excavation and soil sampling activities were conducted at the Site as outlined in the approved Work Plan. Based on final excavation sample analytical results compliant with the Site Closure Criteria and the NMOCD approved background chloride concentration, XTO respectfully requests NFA for Incident Number NAPP2128451743. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365 or [Aimee.Cole@wsp.com](mailto:Aimee.Cole@wsp.com).

Kind regards,

A handwritten signature in black ink, appearing to read 'N. Katoch'.

Nihaar Katoch  
Assistant Consultant, Geologist

A handwritten signature in black ink, appearing to read 'Aimee Cole'.

Aimee Cole  
Sr. Consultant, Environmental Scientist

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

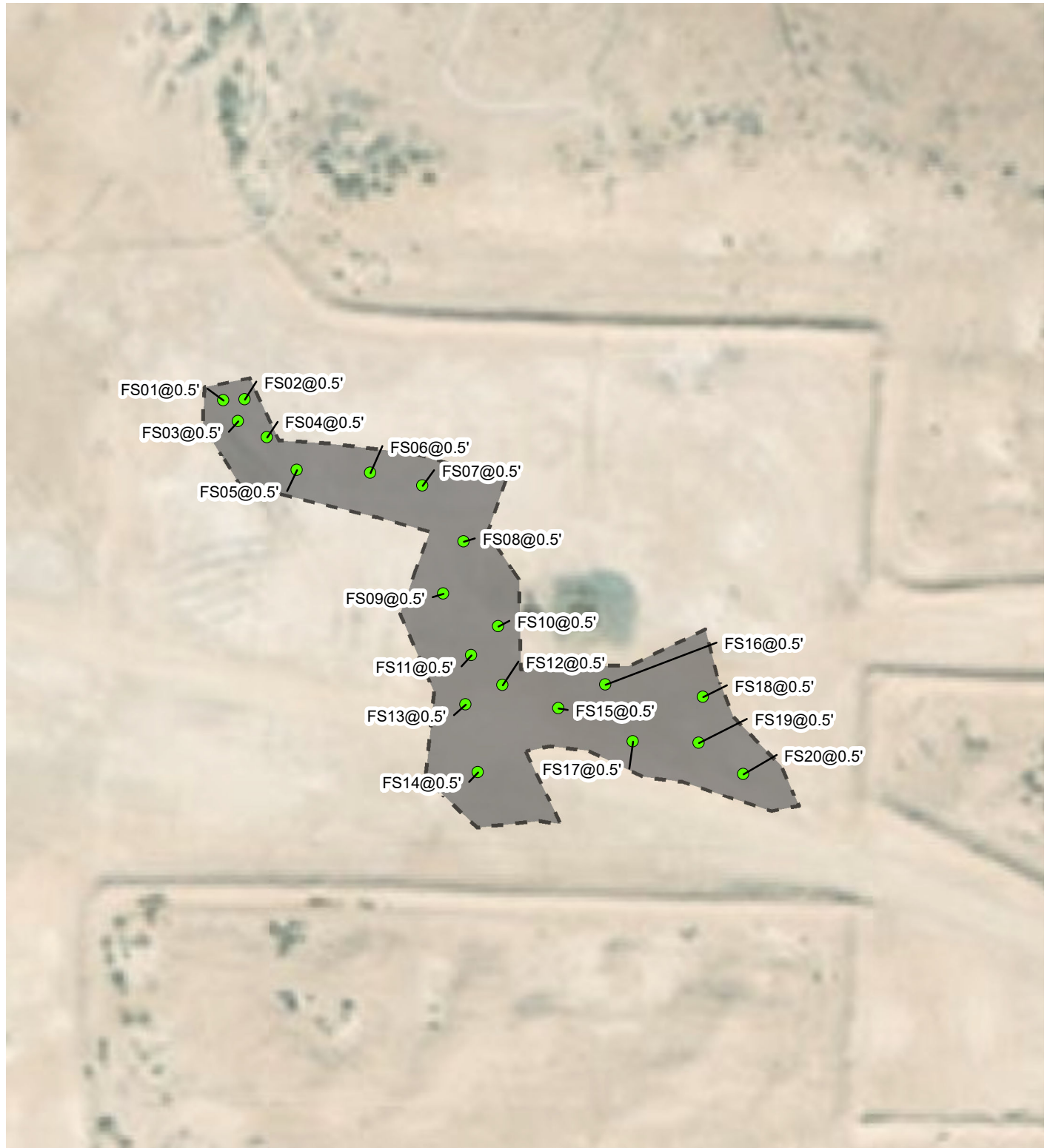


District II  
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Attachments:

Figure 1	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Photographic Log
Attachment 2	Laboratory Analytical Report

FIGURES

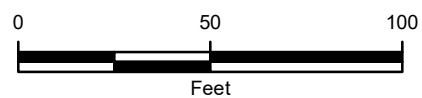
**LEGEND**

FLOOR SAMPLE IN COMPLIANCE  
WITH APPLICABLE CLOSURE CRITERIA



EXCAVATION EXTENT

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER NAPP2128451743  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 1**  
**EXCAVATION SOIL SAMPLE LOCATIONS**  
NASH UNIT 43H  
UNIT J SEC 12 T23S R29E  
EDDY COUNTY, NEW MEXICO  
**XTO ENERGY, INC.**



TABLES

Table 1

**Soil Analytical Results**  
**Nash Unit 43H**  
**Incident Number NAPP2128451743**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Chloride Criteria										20,000
Excavation Soil Samples										
FS01	12/09/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,170
FS02	12/09/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,570
FS03	12/09/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	2,840
FS04	12/09/2021	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	2,240
FS05	12/09/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,270
FS06	12/09/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	4,790
FS07	12/09/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	3,560
FS08	12/09/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,200
FS09	12/09/2021	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	1,740
FS10	12/09/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	859
FS11	12/09/2021	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	926
FS12	12/09/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	842
FS13	12/09/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,090
FS14	12/09/2021	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
FS15	12/09/2021	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,690
FS16	12/09/2021	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	4,330
FS17	12/09/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	2,720
FS18	12/09/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,730
FS19	12/09/2021	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,090



Table 1

Soil Analytical Results  
Nash Unit 43H  
Incident Number NAPP2128451743  
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Chloride Criteria										20,000
FS20	12/09/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,250

**Notes:**

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

&lt; - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

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

Greyed data represents samples that were excavated

ATTACHMENT 1: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy	Nash Unit 43H Eddy County, New Mexico	NAPP2128451743



Photo No.	Date	
1	December 9, 2021	
South facing view of excavation.		

Photo No.	Date	
2	December 9, 2021	
North facing view of excavation.		

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1707-1

Laboratory Sample Delivery Group: 31403236.020.0129

Client Project/Site: Nash Unit 043H

For:

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

Attn: Tacoma Morrissey

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

Authorized for release by:  
12/16/2021 8:12:34 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: Nash Unit 043H

Laboratory Job ID: 890-1707-1  
SDG: 31403236.020.0129

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
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.

## 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: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

**Job ID: 890-1707-1****Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative  
890-1707-1****Receipt**

The samples were received on 12/13/2021 4:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14794 and analytical batch 880-14897 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: The matrix spike / matrix spike duplicate precision for preparation batch 880-14785 and analytical batch 880-14897 was 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.

**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: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS01

Lab Sample ID: 890-1707-1

Date Collected: 12/09/21 10:15

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 11:11	1
Toluene	<0.00199	U F2 F1	0.00199	mg/Kg		12/14/21 12:00	12/15/21 11:11	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	mg/Kg		12/14/21 12:00	12/15/21 11:11	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398	mg/Kg		12/14/21 12:00	12/15/21 11:11	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		12/14/21 12:00	12/15/21 11:11	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		12/14/21 12:00	12/15/21 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	12/14/21 12:00	12/15/21 11:11	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/14/21 12:00	12/15/21 11:11	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	12/14/21 16:40	12/16/21 13:04	1
o-Terphenyl	119		70 - 130	12/14/21 16:40	12/16/21 13:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		50.1	mg/Kg			12/15/21 11:19	10

Client Sample ID: FS02

Lab Sample ID: 890-1707-2

Date Collected: 12/09/21 10:17

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 11:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 11:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 11:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 11:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 11:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	12/14/21 12:00	12/15/21 11:32	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS02

Lab Sample ID: 890-1707-2

Date Collected: 12/09/21 10:17

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	12/14/21 12:00	12/15/21 11:32	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			12/14/21 16:40	12/16/21 13:26	1
o-Terphenyl	100		70 - 130			12/14/21 16:40	12/16/21 13:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5570		99.8	mg/Kg			12/15/21 11:28	20

Client Sample ID: FS03

Lab Sample ID: 890-1707-3

Date Collected: 12/09/21 10:19

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 11:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 11:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 11:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 11:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 11:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/14/21 12:00	12/15/21 11:52	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/14/21 12:00	12/15/21 11:52	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS03

## Lab Sample ID: 890-1707-3

Date Collected: 12/09/21 10:19

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 13:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 13:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			12/14/21 16:40	12/16/21 13:46	1
o-Terphenyl	114		70 - 130			12/14/21 16:40	12/16/21 13:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2840		49.8	mg/Kg			12/15/21 11:36	10

## Client Sample ID: FS04

## Lab Sample ID: 890-1707-4

Date Collected: 12/09/21 10:20

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 12:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 12:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 12:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/14/21 12:00	12/15/21 12:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 12:12	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/14/21 12:00	12/15/21 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/14/21 12:00	12/15/21 12:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/14/21 12:00	12/15/21 12:12	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 14:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 14:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			12/14/21 16:40	12/16/21 14:07	1
o-Terphenyl	112		70 - 130			12/14/21 16:40	12/16/21 14:07	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS04

## Lab Sample ID: 890-1707-4

Date Collected: 12/09/21 10:20

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2240		49.8	mg/Kg			12/15/21 08:53	10

## Client Sample ID: FS05

## Lab Sample ID: 890-1707-5

Date Collected: 12/09/21 10:21

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 12:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 12:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 12:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 12:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 12:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 12:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			12/14/21 12:00	12/15/21 12:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/14/21 12:00	12/15/21 12:33	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/14/21 16:40	12/16/21 14:28	1
o-Terphenyl	101		70 - 130			12/14/21 16:40	12/16/21 14:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3270		49.9	mg/Kg			12/15/21 08:59	10

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS06

Lab Sample ID: 890-1707-6

Date Collected: 12/09/21 10:45

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 12:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 12:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/14/21 12:00	12/15/21 12:53	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/14/21 12:00	12/15/21 12:53	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 10:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 10:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 10:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	12/14/21 15:08	12/15/21 10:48	1
o-Terphenyl	104		70 - 130	12/14/21 15:08	12/15/21 10:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4790		99.0	mg/Kg			12/15/21 09:19	20

Client Sample ID: FS07

Lab Sample ID: 890-1707-7

Date Collected: 12/09/21 10:47

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 13:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 13:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 13:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 13:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 13:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/14/21 12:00	12/15/21 13:14	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS07

Lab Sample ID: 890-1707-7

Date Collected: 12/09/21 10:47

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	12/14/21 12:00	12/15/21 13:14	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/21 14:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 11:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 11:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 11:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 15:08	12/15/21 11:52	1
o-Terphenyl	104		70 - 130			12/14/21 15:08	12/15/21 11:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3560		50.0	mg/Kg			12/15/21 09:26	10

Client Sample ID: FS08

Lab Sample ID: 890-1707-8

Date Collected: 12/09/21 10:50

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 13:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 13:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 13:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 13:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	12/14/21 12:00	12/15/21 13:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/14/21 12:00	12/15/21 13:34	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS08

## Lab Sample ID: 890-1707-8

Date Collected: 12/09/21 10:50

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 15:08	12/15/21 12:13	1
o-Terphenyl	102		70 - 130			12/14/21 15:08	12/15/21 12:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50.4	mg/Kg			12/15/21 09:33	10

## Client Sample ID: FS09

## Lab Sample ID: 890-1707-9

Date Collected: 12/09/21 10:52

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 13:54	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 13:54	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 13:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/14/21 12:00	12/15/21 13:54	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/14/21 12:00	12/15/21 13:54	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/14/21 12:00	12/15/21 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			12/14/21 12:00	12/15/21 13:54	1
1,4-Difluorobenzene (Surr)	83		70 - 130			12/14/21 12:00	12/15/21 13:54	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/14/21 15:08	12/15/21 12:34	1
o-Terphenyl	103		70 - 130			12/14/21 15:08	12/15/21 12:34	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS09

## Lab Sample ID: 890-1707-9

Date Collected: 12/09/21 10:52

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		49.8	mg/Kg			12/15/21 09:39	10

## Client Sample ID: FS10

## Lab Sample ID: 890-1707-10

Date Collected: 12/09/21 10:55

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 14:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 14:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 14:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			12/14/21 12:00	12/15/21 14:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130			12/14/21 12:00	12/15/21 14:15	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			12/14/21 15:08	12/15/21 12:56	1
o-Terphenyl	99		70 - 130			12/14/21 15:08	12/15/21 12:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	859		49.8	mg/Kg			12/15/21 09:46	10

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS11

Lab Sample ID: 890-1707-11

Date Collected: 12/09/21 13:40

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 16:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 16:05	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 16:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/14/21 12:00	12/15/21 16:05	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 16:05	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/14/21 12:00	12/15/21 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/14/21 12:00	12/15/21 16:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/14/21 12:00	12/15/21 16:05	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 13:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:08	12/15/21 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	12/14/21 15:08	12/15/21 13:17	1
o-Terphenyl	104		70 - 130	12/14/21 15:08	12/15/21 13:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	926	F1	49.5	mg/Kg			12/15/21 09:53	10

Client Sample ID: FS12

Lab Sample ID: 890-1707-12

Date Collected: 12/09/21 13:45

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 16:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 16:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 16:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/14/21 12:00	12/15/21 16:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 16:26	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/14/21 12:00	12/15/21 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	12/14/21 12:00	12/15/21 16:26	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS12

Lab Sample ID: 890-1707-12

Date Collected: 12/09/21 13:45

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	12/14/21 12:00	12/15/21 16:26	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 13:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 13:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			12/14/21 15:08	12/15/21 13:38	1
o-Terphenyl	104		70 - 130			12/14/21 15:08	12/15/21 13:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	842		50.1	mg/Kg			12/15/21 10:13	10

Client Sample ID: FS13

Lab Sample ID: 890-1707-13

Date Collected: 12/09/21 13:50

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 16:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 16:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 16:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 12:00	12/15/21 16:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 16:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 12:00	12/15/21 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/14/21 12:00	12/15/21 16:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/14/21 12:00	12/15/21 16:46	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS13

## Lab Sample ID: 890-1707-13

Date Collected: 12/09/21 13:50

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0	mg/Kg		12/14/21 15:12	12/16/21 16:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 16:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/14/21 15:12	12/16/21 16:54	1
o-Terphenyl	102		70 - 130			12/14/21 15:12	12/16/21 16:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		49.7	mg/Kg			12/15/21 10:19	10

## Client Sample ID: FS14

## Lab Sample ID: 890-1707-14

Date Collected: 12/09/21 13:55

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 17:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 17:07	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 17:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/14/21 12:00	12/15/21 17:07	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 17:07	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/14/21 12:00	12/15/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			12/14/21 12:00	12/15/21 17:07	1
1,4-Difluorobenzene (Surr)	85		70 - 130			12/14/21 12:00	12/15/21 17:07	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			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:12	12/16/21 17:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:12	12/16/21 17:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:12	12/16/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/14/21 15:12	12/16/21 17:57	1
o-Terphenyl	102		70 - 130			12/14/21 15:12	12/16/21 17:57	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS14

Lab Sample ID: 890-1707-14

Date Collected: 12/09/21 13:55

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		49.8	mg/Kg			12/15/21 10:39	10

## Client Sample ID: FS15

Lab Sample ID: 890-1707-15

Date Collected: 12/09/21 13:57

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 12:00	12/15/21 17:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 12:00	12/15/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/14/21 12:00	12/15/21 17:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/14/21 12:00	12/15/21 17:27	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 15:12	12/16/21 18:18	1
o-Terphenyl	100		70 - 130			12/14/21 15:12	12/16/21 18:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2690		49.5	mg/Kg			12/15/21 10:46	10

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS16

Lab Sample ID: 890-1707-16

Date Collected: 12/09/21 14:10

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 17:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 17:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 17:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/14/21 12:00	12/15/21 17:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/14/21 12:00	12/15/21 17:47	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/14/21 12:00	12/15/21 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/14/21 12:00	12/15/21 17:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/14/21 12:00	12/15/21 17:47	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	12/14/21 15:12	12/16/21 18:39	1
o-Terphenyl	93		70 - 130	12/14/21 15:12	12/16/21 18:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4330		50.0	mg/Kg			12/15/21 10:53	10

Client Sample ID: FS17

Lab Sample ID: 890-1707-17

Date Collected: 12/09/21 14:20

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 18:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/14/21 12:00	12/15/21 18:08	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS17

Lab Sample ID: 890-1707-17

Date Collected: 12/09/21 14:20

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	12/14/21 12:00	12/15/21 18:08	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			12/14/21 15:12	12/16/21 18:59	1
o-Terphenyl	95		70 - 130			12/14/21 15:12	12/16/21 18:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2720		50.1	mg/Kg			12/15/21 10:59	10

Client Sample ID: FS18

Lab Sample ID: 890-1707-18

Date Collected: 12/09/21 14:25

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 18:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 18:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 18:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 18:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/14/21 12:00	12/15/21 18:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/14/21 12:00	12/15/21 18:28	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS18

Lab Sample ID: 890-1707-18

Date Collected: 12/09/21 14:25

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 15:12	12/16/21 19:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 15:12	12/16/21 19:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 15:12	12/16/21 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 15:12	12/16/21 19:20	1
o-Terphenyl	100		70 - 130			12/14/21 15:12	12/16/21 19:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1730		49.5	mg/Kg			12/15/21 11:06	10

Client Sample ID: FS19

Lab Sample ID: 890-1707-19

Date Collected: 12/09/21 14:30

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 18:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 18:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/14/21 12:00	12/15/21 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			12/14/21 12:00	12/15/21 18:49	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/14/21 12:00	12/15/21 18:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 19:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 19:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/14/21 15:12	12/16/21 19:40	1
o-Terphenyl	99		70 - 130			12/14/21 15:12	12/16/21 19:40	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS19

## Lab Sample ID: 890-1707-19

Date Collected: 12/09/21 14:30

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3090		50.4	mg/Kg			12/15/21 11:13	10

## Client Sample ID: FS20

## Lab Sample ID: 890-1707-20

Date Collected: 12/09/21 14:40

Matrix: Solid

Date Received: 12/13/21 04:54

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		12/14/21 12:00	12/15/21 19:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 19:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 19:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 19:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/14/21 12:00	12/15/21 19:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/14/21 12:00	12/15/21 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/14/21 12:00	12/15/21 19:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/14/21 12:00	12/15/21 19:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/14/21 15:12	12/16/21 20:01	1
o-Terphenyl	104		70 - 130			12/14/21 15:12	12/16/21 20:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2250		50.0	mg/Kg			12/15/21 11:19	10

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-1707-1	FS01	125	109				
890-1707-1 MS	FS01	191 S1+	115				
890-1707-1 MSD	FS01	132 S1+	93				
890-1707-2	FS02	81	108				
890-1707-3	FS03	122	92				
890-1707-4	FS04	125	105				
890-1707-5	FS05	121	101				
890-1707-6	FS06	115	98				
890-1707-7	FS07	114	94				
890-1707-8	FS08	132 S1+	99				
890-1707-9	FS09	121	83				
890-1707-10	FS10	118	92				
890-1707-11	FS11	130	100				
890-1707-12	FS12	132 S1+	103				
890-1707-13	FS13	121	98				
890-1707-14	FS14	109	85				
890-1707-15	FS15	124	95				
890-1707-16	FS16	116	100				
890-1707-17	FS17	114	96				
890-1707-18	FS18	120	101				
890-1707-19	FS19	114	94				
890-1707-20	FS20	116	102				
LCS 880-14759/1-A	Lab Control Sample	107	92				
LCSD 880-14759/2-A	Lab Control Sample Dup	111	98				
MB 880-14759/5-A	Method Blank	119	94				
<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	OTPH1				
		(70-130)	(70-130)				
890-1707-1	FS01	119	119				
890-1707-2	FS02	98	100				
890-1707-3	FS03	114	114				
890-1707-4	FS04	111	112				
890-1707-5	FS05	102	101				
890-1707-6	FS06	104	104				
890-1707-6 MS	FS06	90	97				
890-1707-6 MSD	FS06	89	97				
890-1707-7	FS07	99	104				
890-1707-8	FS08	99	102				
890-1707-9	FS09	102	103				
890-1707-10	FS10	98	99				
890-1707-11	FS11	101	104				
890-1707-12	FS12	103	104				

Eurofins Xenco, Carlsbad

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1707-13	FS13	102	102
890-1707-13 MS	FS13	91	94
890-1707-13 MSD	FS13	94	92
890-1707-14	FS14	102	102
890-1707-15	FS15	99	100
890-1707-16	FS16	92	93
890-1707-17	FS17	92	95
890-1707-18	FS18	99	100
890-1707-19	FS19	99	99
890-1707-20	FS20	104	104
890-1709-A-1-E MS	Matrix Spike	84	86
890-1709-A-1-F MSD	Matrix Spike Duplicate	105	106

## Surrogate Legend

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 (70-130)	OTPH2 (70-130)
LCS 880-14783/2-A	Lab Control Sample	111	112
LCS 880-14785/2-A	Lab Control Sample	93	98
LCS 880-14794/2-A	Lab Control Sample	115	119
LCSD 880-14783/3-A	Lab Control Sample Dup	108	119
LCSD 880-14785/3-A	Lab Control Sample Dup	108	105
LCSD 880-14794/3-A	Lab Control Sample Dup	102	109
MB 880-14783/1-A	Method Blank	93	100
MB 880-14785/1-A	Method Blank	104	105
MB 880-14794/1-A	Method Blank	102	104

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Lab Sample ID: MB 880-14759/5-A

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14759

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 12:00	12/15/21 10:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/14/21 12:00	12/15/21 10:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/14/21 12:00	12/15/21 10:42	1

Lab Sample ID: LCS 880-14759/1-A

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08404		mg/Kg		84	70 - 130
Toluene	0.100	0.08831		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09020		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1816		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08767		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-14759/2-A

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14759

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08205		mg/Kg		82	70 - 130	2	35
Toluene	0.100	0.08721		mg/Kg		87	70 - 130	1	35
Ethylbenzene	0.100	0.09224		mg/Kg		92	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1766		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.09066		mg/Kg		91	70 - 130	3	35

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

Lab Sample ID: 890-1707-1 MS

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 14759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.101	0.01508	F1	mg/Kg		15	70 - 130
Toluene	<0.00199	U F2 F1	0.101	0.03494	F1	mg/Kg		34	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Lab Sample ID: 890-1707-1 MS

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 14759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F2 F1	0.101	0.02726	F1	mg/Kg		27	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.202	0.05925	F1	mg/Kg		28	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.04943	F1	mg/Kg		47	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-1707-1 MSD

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 14759

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	0.05436	F2 F1	mg/Kg		54	70 - 130	113	35
Toluene	<0.00199	U F2 F1	0.0998	0.05731	F2 F1	mg/Kg		57	70 - 130	49	35
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.05690	F2 F1	mg/Kg		57	70 - 130	70	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1201	F2 F1	mg/Kg		59	70 - 130	68	35
o-Xylene	<0.00199	U F1	0.0998	0.06419	F1	mg/Kg		63	70 - 130	26	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-14783/1-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14783

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 09:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 09:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 09:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	12/14/21 15:08	12/15/21 09:45	1
o-Terphenyl	100		70 - 130	12/14/21 15:08	12/15/21 09:45	1

Lab Sample ID: LCS 880-14783/2-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	957.4		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	967.4		mg/Kg		97	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Lab Sample ID: LCS 880-14783/2-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14783

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

Lab Sample ID: LCSD 880-14783/3-A

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14783

	Spike	LCSD	LCSD						%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	908.5		mg/Kg		91	70 - 130	5	20		
Diesel Range Organics (Over C10-C28)	1000	924.4		mg/Kg		92	70 - 130	5	20		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-1707-6 MS

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 14783

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	905.8		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1006		mg/Kg		98	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-1707-6 MSD

Matrix: Solid

Analysis Batch: 14803

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 14783

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	890.1		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1011		mg/Kg		99	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	97		70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Lab Sample ID: MB 880-14785/1-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14785

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 15:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 15:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/14/21 15:12	12/16/21 15:52	1
o-Terphenyl	105		70 - 130			12/14/21 15:12	12/16/21 15:52	1

Lab Sample ID: LCS 880-14785/2-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	869.6		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	852.6		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	93		70 - 130				
o-Terphenyl	98		70 - 130				

Lab Sample ID: LCSD 880-14785/3-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	939.7		mg/Kg		94	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	938.2		mg/Kg		94	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 890-1707-13 MS

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 14785

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	996	943.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1025		mg/Kg		103	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Lab Sample ID: 890-1707-13 MS

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 14785

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-1707-13 MSD

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 14785

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	995	1236	F2	mg/Kg		120	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1006		mg/Kg		101	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-14794/1-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14794

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	102		70 - 130	12/14/21 16:40	12/16/21 10:15	1
o-Terphenyl	104		70 - 130	12/14/21 16:40	12/16/21 10:15	1

Lab Sample ID: LCS 880-14794/2-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	119		70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-14794/3-A

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	898.3		mg/Kg		90	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	880.0		mg/Kg		88	70 - 130	19	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-1709-A-1-E MS

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	996	916.1		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F2	996	978.6		mg/Kg		97	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: 890-1709-A-1-F MSD

Matrix: Solid

Analysis Batch: 14897

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14794

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 F1 F2	995	1433	F1 F2	mg/Kg		142	70 - 130	44	20
Diesel Range Organics (Over C10-C28)	<50.0	U F2	995	1226	F2	mg/Kg		122	70 - 130	22	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	106		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14791/1-A

Matrix: Solid

Analysis Batch: 14809

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/15/21 00:49	1

Eurofins Xenco, Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14791/2-A

Matrix: Solid

Analysis Batch: 14809

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-14791/3-A

Matrix: Solid

Analysis Batch: 14809

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	267.3		mg/Kg		107	90 - 110	2	20

Lab Sample ID: 890-1707-11 MS

Matrix: Solid

Analysis Batch: 14809

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	926	F1	2480	3693	F1	mg/Kg		112	90 - 110

Lab Sample ID: 890-1707-11 MSD

Matrix: Solid

Analysis Batch: 14809

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	926	F1	2480	3605		mg/Kg		108	90 - 110	2	20

Lab Sample ID: MB 880-14792/1-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/15/21 09:09	1

Lab Sample ID: LCS 880-14792/2-A

Matrix: Solid

Analysis Batch: 14832

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	252.9		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-14792/3-A

Matrix: Solid

Analysis Batch: 14832

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	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1703-A-3-I MS

Matrix: Solid

Analysis Batch: 14832

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	888		1250	2229		mg/Kg		107	90 - 110

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1703-A-3-J MSD

Matrix: Solid

Analysis Batch: 14832

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	888		1250	2172		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-1709-A-2-E MS

Matrix: Solid

Analysis Batch: 14832

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	931		2480	3403		mg/Kg		100	90 - 110		

Lab Sample ID: 890-1709-A-2-F MSD

Matrix: Solid

Analysis Batch: 14832

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	931		2480	3392		mg/Kg		99	90 - 110	0	20

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## GC VOA

## Prep Batch: 14759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Total/NA	Solid	5035	
890-1707-2	FS02	Total/NA	Solid	5035	
890-1707-3	FS03	Total/NA	Solid	5035	
890-1707-4	FS04	Total/NA	Solid	5035	
890-1707-5	FS05	Total/NA	Solid	5035	
890-1707-6	FS06	Total/NA	Solid	5035	
890-1707-7	FS07	Total/NA	Solid	5035	
890-1707-8	FS08	Total/NA	Solid	5035	
890-1707-9	FS09	Total/NA	Solid	5035	
890-1707-10	FS10	Total/NA	Solid	5035	
890-1707-11	FS11	Total/NA	Solid	5035	
890-1707-12	FS12	Total/NA	Solid	5035	
890-1707-13	FS13	Total/NA	Solid	5035	
890-1707-14	FS14	Total/NA	Solid	5035	
890-1707-15	FS15	Total/NA	Solid	5035	
890-1707-16	FS16	Total/NA	Solid	5035	
890-1707-17	FS17	Total/NA	Solid	5035	
890-1707-18	FS18	Total/NA	Solid	5035	
890-1707-19	FS19	Total/NA	Solid	5035	
890-1707-20	FS20	Total/NA	Solid	5035	
MB 880-14759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1707-1 MS	FS01	Total/NA	Solid	5035	
890-1707-1 MSD	FS01	Total/NA	Solid	5035	

## Analysis Batch: 14796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Total/NA	Solid	8021B	14759
890-1707-2	FS02	Total/NA	Solid	8021B	14759
890-1707-3	FS03	Total/NA	Solid	8021B	14759
890-1707-4	FS04	Total/NA	Solid	8021B	14759
890-1707-5	FS05	Total/NA	Solid	8021B	14759
890-1707-6	FS06	Total/NA	Solid	8021B	14759
890-1707-7	FS07	Total/NA	Solid	8021B	14759
890-1707-8	FS08	Total/NA	Solid	8021B	14759
890-1707-9	FS09	Total/NA	Solid	8021B	14759
890-1707-10	FS10	Total/NA	Solid	8021B	14759
890-1707-11	FS11	Total/NA	Solid	8021B	14759
890-1707-12	FS12	Total/NA	Solid	8021B	14759
890-1707-13	FS13	Total/NA	Solid	8021B	14759
890-1707-14	FS14	Total/NA	Solid	8021B	14759
890-1707-15	FS15	Total/NA	Solid	8021B	14759
890-1707-16	FS16	Total/NA	Solid	8021B	14759
890-1707-17	FS17	Total/NA	Solid	8021B	14759
890-1707-18	FS18	Total/NA	Solid	8021B	14759
890-1707-19	FS19	Total/NA	Solid	8021B	14759
890-1707-20	FS20	Total/NA	Solid	8021B	14759
MB 880-14759/5-A	Method Blank	Total/NA	Solid	8021B	14759
LCS 880-14759/1-A	Lab Control Sample	Total/NA	Solid	8021B	14759
LCSD 880-14759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14759

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## GC VOA (Continued)

## Analysis Batch: 14796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1 MS	FS01	Total/NA	Solid	8021B	14759
890-1707-1 MSD	FS01	Total/NA	Solid	8021B	14759

## Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Total/NA	Solid	Total BTEX	
890-1707-2	FS02	Total/NA	Solid	Total BTEX	
890-1707-3	FS03	Total/NA	Solid	Total BTEX	
890-1707-4	FS04	Total/NA	Solid	Total BTEX	
890-1707-5	FS05	Total/NA	Solid	Total BTEX	
890-1707-6	FS06	Total/NA	Solid	Total BTEX	
890-1707-7	FS07	Total/NA	Solid	Total BTEX	

## Analysis Batch: 14932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-8	FS08	Total/NA	Solid	Total BTEX	
890-1707-9	FS09	Total/NA	Solid	Total BTEX	
890-1707-10	FS10	Total/NA	Solid	Total BTEX	
890-1707-11	FS11	Total/NA	Solid	Total BTEX	
890-1707-12	FS12	Total/NA	Solid	Total BTEX	
890-1707-13	FS13	Total/NA	Solid	Total BTEX	
890-1707-14	FS14	Total/NA	Solid	Total BTEX	
890-1707-15	FS15	Total/NA	Solid	Total BTEX	
890-1707-16	FS16	Total/NA	Solid	Total BTEX	
890-1707-17	FS17	Total/NA	Solid	Total BTEX	
890-1707-18	FS18	Total/NA	Solid	Total BTEX	
890-1707-19	FS19	Total/NA	Solid	Total BTEX	
890-1707-20	FS20	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Total/NA	Solid	8015 NM	
890-1707-2	FS02	Total/NA	Solid	8015 NM	
890-1707-3	FS03	Total/NA	Solid	8015 NM	
890-1707-4	FS04	Total/NA	Solid	8015 NM	
890-1707-5	FS05	Total/NA	Solid	8015 NM	
890-1707-6	FS06	Total/NA	Solid	8015 NM	
890-1707-7	FS07	Total/NA	Solid	8015 NM	
890-1707-8	FS08	Total/NA	Solid	8015 NM	
890-1707-9	FS09	Total/NA	Solid	8015 NM	
890-1707-10	FS10	Total/NA	Solid	8015 NM	
890-1707-11	FS11	Total/NA	Solid	8015 NM	
890-1707-12	FS12	Total/NA	Solid	8015 NM	
890-1707-13	FS13	Total/NA	Solid	8015 NM	
890-1707-14	FS14	Total/NA	Solid	8015 NM	
890-1707-15	FS15	Total/NA	Solid	8015 NM	
890-1707-16	FS16	Total/NA	Solid	8015 NM	
890-1707-17	FS17	Total/NA	Solid	8015 NM	
890-1707-18	FS18	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## GC Semi VOA (Continued)

## Analysis Batch: 14652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-19	FS19	Total/NA	Solid	8015 NM	
890-1707-20	FS20	Total/NA	Solid	8015 NM	

## Prep Batch: 14783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-6	FS06	Total/NA	Solid	8015NM Prep	
890-1707-7	FS07	Total/NA	Solid	8015NM Prep	
890-1707-8	FS08	Total/NA	Solid	8015NM Prep	
890-1707-9	FS09	Total/NA	Solid	8015NM Prep	
890-1707-10	FS10	Total/NA	Solid	8015NM Prep	
890-1707-11	FS11	Total/NA	Solid	8015NM Prep	
890-1707-12	FS12	Total/NA	Solid	8015NM Prep	
MB 880-14783/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14783/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14783/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1707-6 MS	FS06	Total/NA	Solid	8015NM Prep	
890-1707-6 MSD	FS06	Total/NA	Solid	8015NM Prep	

## Prep Batch: 14785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-13	FS13	Total/NA	Solid	8015NM Prep	
890-1707-14	FS14	Total/NA	Solid	8015NM Prep	
890-1707-15	FS15	Total/NA	Solid	8015NM Prep	
890-1707-16	FS16	Total/NA	Solid	8015NM Prep	
890-1707-17	FS17	Total/NA	Solid	8015NM Prep	
890-1707-18	FS18	Total/NA	Solid	8015NM Prep	
890-1707-19	FS19	Total/NA	Solid	8015NM Prep	
890-1707-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-14785/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14785/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14785/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1707-13 MS	FS13	Total/NA	Solid	8015NM Prep	
890-1707-13 MSD	FS13	Total/NA	Solid	8015NM Prep	

## Prep Batch: 14794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Total/NA	Solid	8015NM Prep	
890-1707-2	FS02	Total/NA	Solid	8015NM Prep	
890-1707-3	FS03	Total/NA	Solid	8015NM Prep	
890-1707-4	FS04	Total/NA	Solid	8015NM Prep	
890-1707-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-14794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1709-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1709-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 14803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-6	FS06	Total/NA	Solid	8015B NM	14783
890-1707-7	FS07	Total/NA	Solid	8015B NM	14783

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## GC Semi VOA (Continued)

## Analysis Batch: 14803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-8	FS08	Total/NA	Solid	8015B NM	14783
890-1707-9	FS09	Total/NA	Solid	8015B NM	14783
890-1707-10	FS10	Total/NA	Solid	8015B NM	14783
890-1707-11	FS11	Total/NA	Solid	8015B NM	14783
890-1707-12	FS12	Total/NA	Solid	8015B NM	14783
MB 880-14783/1-A	Method Blank	Total/NA	Solid	8015B NM	14783
LCS 880-14783/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14783
LCSD 880-14783/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14783
890-1707-6 MS	FS06	Total/NA	Solid	8015B NM	14783
890-1707-6 MSD	FS06	Total/NA	Solid	8015B NM	14783

## Analysis Batch: 14897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Total/NA	Solid	8015B NM	14794
890-1707-2	FS02	Total/NA	Solid	8015B NM	14794
890-1707-3	FS03	Total/NA	Solid	8015B NM	14794
890-1707-4	FS04	Total/NA	Solid	8015B NM	14794
890-1707-5	FS05	Total/NA	Solid	8015B NM	14794
890-1707-13	FS13	Total/NA	Solid	8015B NM	14785
890-1707-14	FS14	Total/NA	Solid	8015B NM	14785
890-1707-15	FS15	Total/NA	Solid	8015B NM	14785
890-1707-16	FS16	Total/NA	Solid	8015B NM	14785
890-1707-17	FS17	Total/NA	Solid	8015B NM	14785
890-1707-18	FS18	Total/NA	Solid	8015B NM	14785
890-1707-19	FS19	Total/NA	Solid	8015B NM	14785
890-1707-20	FS20	Total/NA	Solid	8015B NM	14785
MB 880-14785/1-A	Method Blank	Total/NA	Solid	8015B NM	14785
MB 880-14794/1-A	Method Blank	Total/NA	Solid	8015B NM	14794
LCS 880-14785/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14785
LCS 880-14794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14794
LCSD 880-14785/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14785
LCSD 880-14794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14794
890-1707-13 MS	FS13	Total/NA	Solid	8015B NM	14785
890-1707-13 MSD	FS13	Total/NA	Solid	8015B NM	14785
890-1709-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	14794
890-1709-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14794

## HPLC/IC

## Leach Batch: 14791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-4	FS04	Soluble	Solid	DI Leach	
890-1707-5	FS05	Soluble	Solid	DI Leach	
890-1707-6	FS06	Soluble	Solid	DI Leach	
890-1707-7	FS07	Soluble	Solid	DI Leach	
890-1707-8	FS08	Soluble	Solid	DI Leach	
890-1707-9	FS09	Soluble	Solid	DI Leach	
890-1707-10	FS10	Soluble	Solid	DI Leach	
890-1707-11	FS11	Soluble	Solid	DI Leach	
890-1707-12	FS12	Soluble	Solid	DI Leach	
890-1707-13	FS13	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## HPLC/IC (Continued)

## Leach Batch: 14791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-14	FS14	Soluble	Solid	DI Leach	
890-1707-15	FS15	Soluble	Solid	DI Leach	
890-1707-16	FS16	Soluble	Solid	DI Leach	
890-1707-17	FS17	Soluble	Solid	DI Leach	
890-1707-18	FS18	Soluble	Solid	DI Leach	
890-1707-19	FS19	Soluble	Solid	DI Leach	
890-1707-20	FS20	Soluble	Solid	DI Leach	
MB 880-14791/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14791/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14791/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1707-11 MS	FS11	Soluble	Solid	DI Leach	
890-1707-11 MSD	FS11	Soluble	Solid	DI Leach	

## Leach Batch: 14792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Soluble	Solid	DI Leach	
890-1707-2	FS02	Soluble	Solid	DI Leach	
890-1707-3	FS03	Soluble	Solid	DI Leach	
MB 880-14792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1703-A-3-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1703-A-3-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1709-A-2-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1709-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 14809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-4	FS04	Soluble	Solid	300.0	14791
890-1707-5	FS05	Soluble	Solid	300.0	14791
890-1707-6	FS06	Soluble	Solid	300.0	14791
890-1707-7	FS07	Soluble	Solid	300.0	14791
890-1707-8	FS08	Soluble	Solid	300.0	14791
890-1707-9	FS09	Soluble	Solid	300.0	14791
890-1707-10	FS10	Soluble	Solid	300.0	14791
890-1707-11	FS11	Soluble	Solid	300.0	14791
890-1707-12	FS12	Soluble	Solid	300.0	14791
890-1707-13	FS13	Soluble	Solid	300.0	14791
890-1707-14	FS14	Soluble	Solid	300.0	14791
890-1707-15	FS15	Soluble	Solid	300.0	14791
890-1707-16	FS16	Soluble	Solid	300.0	14791
890-1707-17	FS17	Soluble	Solid	300.0	14791
890-1707-18	FS18	Soluble	Solid	300.0	14791
890-1707-19	FS19	Soluble	Solid	300.0	14791
890-1707-20	FS20	Soluble	Solid	300.0	14791
MB 880-14791/1-A	Method Blank	Soluble	Solid	300.0	14791
LCS 880-14791/2-A	Lab Control Sample	Soluble	Solid	300.0	14791
LCSD 880-14791/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14791
890-1707-11 MS	FS11	Soluble	Solid	300.0	14791
890-1707-11 MSD	FS11	Soluble	Solid	300.0	14791

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## HPLC/IC

## Analysis Batch: 14832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1707-1	FS01	Soluble	Solid	300.0	14792
890-1707-2	FS02	Soluble	Solid	300.0	14792
890-1707-3	FS03	Soluble	Solid	300.0	14792
MB 880-14792/1-A	Method Blank	Soluble	Solid	300.0	14792
LCS 880-14792/2-A	Lab Control Sample	Soluble	Solid	300.0	14792
LCSD 880-14792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14792
890-1703-A-3-I MS	Matrix Spike	Soluble	Solid	300.0	14792
890-1703-A-3-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14792
890-1709-A-2-E MS	Matrix Spike	Soluble	Solid	300.0	14792
890-1709-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14792



## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS01

Lab Sample ID: 890-1707-1

Date Collected: 12/09/21 10:15

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 11:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 11:19	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1707-2

Date Collected: 12/09/21 10:17

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 11:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 13:26	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		20	14832	12/15/21 11:28	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1707-3

Date Collected: 12/09/21 10:19

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 11:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			14792	12/14/21 15:58	CA	XEN MID
Soluble	Analysis	300.0		10	14832	12/15/21 11:36	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-1707-4

Date Collected: 12/09/21 10:20

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 12:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS04

## Lab Sample ID: 890-1707-4

Date Collected: 12/09/21 10:20

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 14:07	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 08:53	CH	XEN MID

## Client Sample ID: FS05

## Lab Sample ID: 890-1707-5

Date Collected: 12/09/21 10:21

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 12:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14794	12/14/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 08:59	CH	XEN MID

## Client Sample ID: FS06

## Lab Sample ID: 890-1707-6

Date Collected: 12/09/21 10:45

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 12:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 10:48	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		20	14809	12/15/21 09:19	CH	XEN MID

## Client Sample ID: FS07

## Lab Sample ID: 890-1707-7

Date Collected: 12/09/21 10:47

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 13:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 11:52	AJ	XEN MID

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

## Client Sample ID: FS07

## Lab Sample ID: 890-1707-7

Date Collected: 12/09/21 10:47

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 09:26	CH	XEN MID

## Client Sample ID: FS08

## Lab Sample ID: 890-1707-8

Date Collected: 12/09/21 10:50

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 13:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 12:13	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 09:33	CH	XEN MID

## Client Sample ID: FS09

## Lab Sample ID: 890-1707-9

Date Collected: 12/09/21 10:52

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 13:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 12:34	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 09:39	CH	XEN MID

## Client Sample ID: FS10

## Lab Sample ID: 890-1707-10

Date Collected: 12/09/21 10:55

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 14:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 12:56	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 09:46	CH	XEN MID

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS11

Lab Sample ID: 890-1707-11

Date Collected: 12/09/21 13:40

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 16:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 13:17	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 09:53	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-1707-12

Date Collected: 12/09/21 13:45

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 16:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14783	12/14/21 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14803	12/15/21 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 10:13	CH	XEN MID

Client Sample ID: FS13

Lab Sample ID: 890-1707-13

Date Collected: 12/09/21 13:50

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 16:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 10:19	CH	XEN MID

Client Sample ID: FS14

Lab Sample ID: 890-1707-14

Date Collected: 12/09/21 13:55

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 17:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS14

Lab Sample ID: 890-1707-14

Date Collected: 12/09/21 13:55

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 10:39	CH	XEN MID

Client Sample ID: FS15

Lab Sample ID: 890-1707-15

Date Collected: 12/09/21 13:57

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 17:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 18:18	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 10:46	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-1707-16

Date Collected: 12/09/21 14:10

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 17:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 10:53	CH	XEN MID

Client Sample ID: FS17

Lab Sample ID: 890-1707-17

Date Collected: 12/09/21 14:20

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 18:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 18:59	AJ	XEN MID

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Client Sample ID: FS17

Lab Sample ID: 890-1707-17

Date Collected: 12/09/21 14:20

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 10:59	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-1707-18

Date Collected: 12/09/21 14:25

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 18:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 19:20	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 11:06	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-1707-19

Date Collected: 12/09/21 14:30

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 18:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 19:40	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 11:13	CH	XEN MID

Client Sample ID: FS20

Lab Sample ID: 890-1707-20

Date Collected: 12/09/21 14:40

Matrix: Solid

Date Received: 12/13/21 04:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14759	12/14/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	14796	12/15/21 19:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14785	12/14/21 15:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14897	12/16/21 20:01	AJ	XEN MID
Soluble	Leach	DI Leach			14791	12/14/21 15:56	CA	XEN MID
Soluble	Analysis	300.0		10	14809	12/15/21 11:19	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

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Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Laboratory: Eurofins Xenco, Midland

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

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

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

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

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



## Method Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

## Sample Summary

Client: WSP USA Inc.  
Project/Site: Nash Unit 043H

Job ID: 890-1707-1  
SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1707-1	FS01	Solid	12/09/21 10:15	12/13/21 04:54	0.5
890-1707-2	FS02	Solid	12/09/21 10:17	12/13/21 04:54	0.5
890-1707-3	FS03	Solid	12/09/21 10:19	12/13/21 04:54	0.5
890-1707-4	FS04	Solid	12/09/21 10:20	12/13/21 04:54	0.5
890-1707-5	FS05	Solid	12/09/21 10:21	12/13/21 04:54	0.5
890-1707-6	FS06	Solid	12/09/21 10:45	12/13/21 04:54	0.5
890-1707-7	FS07	Solid	12/09/21 10:47	12/13/21 04:54	0.5
890-1707-8	FS08	Solid	12/09/21 10:50	12/13/21 04:54	0.5
890-1707-9	FS09	Solid	12/09/21 10:52	12/13/21 04:54	0.5
890-1707-10	FS10	Solid	12/09/21 10:55	12/13/21 04:54	0.5
890-1707-11	FS11	Solid	12/09/21 13:40	12/13/21 04:54	0.5
890-1707-12	FS12	Solid	12/09/21 13:45	12/13/21 04:54	0.5
890-1707-13	FS13	Solid	12/09/21 13:50	12/13/21 04:54	0.5
890-1707-14	FS14	Solid	12/09/21 13:55	12/13/21 04:54	0.5
890-1707-15	FS15	Solid	12/09/21 13:57	12/13/21 04:54	0.5
890-1707-16	FS16	Solid	12/09/21 14:10	12/13/21 04:54	0.5
890-1707-17	FS17	Solid	12/09/21 14:20	12/13/21 04:54	0.5
890-1707-18	FS18	Solid	12/09/21 14:25	12/13/21 04:54	0.5
890-1707-19	FS19	Solid	12/09/21 14:30	12/13/21 04:54	0.5
890-1707-20	FS20	Solid	12/09/21 14:40	12/13/21 04:54	0.5



## Chain of Custody

**Work Order No:**


Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 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

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Page 1 of 7

Project Manager:	Tacomma Morrissey	Bill to: (if different)	Kyle Littell
Company Name:	WSP USA Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	Alexis.Castro@wsp.com, tacomma.morrissey@wsp.com

Work Order Comments				
Program: UST/ST	<input type="checkbox"/> PRP	<input type="checkbox"/> brownfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund
State of Project:				
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT	<input type="checkbox"/>	Other:	

Project Name:	Nash Unit 043H	Turn Around	ANALYSIS REQUEST										Work Order Notes		
Project Number:	31403236.020.0129	Task# 10.02	Routine	<input type="checkbox"/>											INC#: NAPP2128451743
P.O. Number:	1140771001	Rush: 24hr													API: 30-015-42206
Sampler's Name:	Alexis Castro	Due Date:													
															

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	3.6 / 3.4	Thermometer ID					
Received intact:	Yes No	F-1111-002					
Cooler Custody Seals:	Yes No	Correction Factor: -0.2					
Sample Custody Seals:	Yes No	Total Containers:					

Number of Containers

PA 8015)

EPA 0=8021)

de (EPA 300.0)

890-1707 Chain of Custody

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

[illegible]

890-1707 Chain of Custody

**TAT starts the day received by the job if received by 4:30pm**

lab, if received by 4:30pm

### Sample Comments

COMPOSITE

COMPOSITE

COMPOSITE

COMPOSITE

COMPOSITE

COMPOSITE

COMPOSITE

**Total 200.7 / 6010      200.8 / 6020:**

8RCRA 13PPM Texas 11

Circle Method(s) and Metal(s) to be analyzed

**TCLP / SPLP 6010: 8RC**

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 Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, 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
Mr. Lippe	[Signature]	12/1/21 4:54			

Revised Date 03/14/2018



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432) 704-5440 EL Paso, TX (915) 565-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

# Chain of Custody

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

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Page 2 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Little
Company Name:	WSP USA Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	Alexis.Castro@wsp.com; tacoma.morrissey@wsp.com

<b>Work Order Comments</b> Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: _____ Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	
--	--

Project Name:	Nash Unit 043H	Turn Around	<input type="checkbox"/>
Project Number:	31403236 020 0129	Task#	10 02
P.O. Number:	1140771001	Rush:	24hr
Sampler's Name:	Alexis Castro	Due Date:	

<b>SAMPLE RECEIPT</b>		Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	3.6 / 3.4	Thermometer ID			
Received Intact:	Yes No	Correction Factor:	NA-002		
Cooler Custody Seals:	Yes No	Total Containers:	-0.2		
Sample Custody Seals:	Yes No				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST										Work Order Notes
					Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)							
FS11	S	12/09/2021	1340	0.5'	1	X	X	X							INC#: NAPP2128451743
FS12	S	12/09/2021	1345	0.5'	1	X	X	X							API: 30-015-42206
FS13	S	12/09/2021	1350	0.5'	1	X	X	X							
FS14	S	12/09/2021	1355	0.5'	1	X	X	X							
FS15	S	12/09/2021	1357	0.5'	1	X	X	X							
FS16	S	12/09/2021	1410	0.5'	1	X	X	X							
FS17	S	12/09/2021	1420	0.5'	1	X	X	X							
FS18	S	12/09/2021	1425	0.5'	1	X	X	X							
FS19	S	12/09/2021	1430	0.5'	1	X	X	X							
FS20	S	12/09/2021	1440	0.5'	1	X	X	X							

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

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>W. Castro</i>	<i>A. Castro</i>	12/3/21 4:34			





Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing  
America

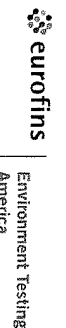
<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No.											
Client Contact	Phone	Kramer, Jessica			890-544 1											
Shipping/Receiving		Address	State of Origin	Page	Page 1 of 3											
Eurofins Xenco		1211 W Florida Ave	New Mexico													
		City	Accreditations Required (See note)	Job #	890-1707-1											
		Midland	NEIAP - Louisiana, NEIAP - Texas													
State Zip		TAT Requested (days):	<b>Analysis Requested</b>													
TX, 79701																
Phone		PO #														
432-704-5440(Tel)		MO #														
Email																
		Project #														
		89000004														
Project Name		SSOW#														
Nash Unit 043H																
Site																
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (Type, Brand, Orientation, B-Tissue A-M)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>8015MOD_NM/8015NM_S_Prep (MOD) Full TPH</b>		<b>8015MOD_Calc</b>	<b>300_ORGFM_28D/DI_LEACH Chloride</b>	<b>8021B/6035FP_Calc (MOD) BTEX</b>	<b>Total_BTEX_GCV</b>	<b>Total Number of containers</b>		<b>Special Instructions/Note</b>
FS01 (890-1707-1)		12/9/21	10 15		Solid			X	X	X	X	X	X	1		
FS02 (890-1707-2)		12/9/21	10 17		Solid			X	X	X	X	X	X	1		
FS03 (890-1707-3)		12/9/21	10 19		Solid			X	X	X	X	X	X	1		
FS04 (890-1707-4)		12/9/21	10 20		Solid			X	X	X	X	X	X	1		
FS05 (890-1707-5)		12/9/21	10 21		Solid			X	X	X	X	X	X	1		
FS06 (890-1707-6)		12/9/21	10 45		Solid			X	X	X	X	X	X	1		
FS07 (890-1707-7)		12/9/21	10 47		Solid			X	X	X	X	X	X	1		
FS08 (890-1707-8)		12/9/21	10 50		Solid			X	X	X	X	X	X	1		
FS09 (890-1707-9)		12/9/21	10 52		Solid			X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																
<b>Possible Hazard Identification</b>																
<b>Unconfirmed</b>																
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2																
Empty Kit Relinquished by: Date: Time: Method of Shipment:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks:																
Δ Yes Δ No																

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

Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing  
America

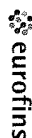
<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s):	COC No.
Client Contact:	Phone	Kramer Jessica			890-544 2
Shipping/Receiving	E-Mail	Jessica.kramer@eurofins.com	State of Origin:	Page:	Page 2 of 3
Company			New Mexico	Job #:	890-1707-1
Eurofins Xenco			Accreditations Required (See note):		
Address	1211 W Florida Ave	Due Date Requested	12/15/2021	NE LAP - Louisiana, NE LAP - Texas	
City	Midland	TAT Requested (days)			
State, Zip	TX 79701	PO #			
Phone	432-704-5440 (Tel)	WO #			
Email		Project #	89000004		
Project Name	Nash Unit 043H	SSOW#			
Site					
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=Water, S=solid, O=wastoid, BT=Tissue, A=Air)</b>
FS10 (890-1707-10)		12/9/21	10 55		Solid
FS11 (890-1707-11)		12/9/21	13 40		Solid
FS12 (890-1707-12)		12/9/21	13 45		Solid
FS13 (890-1707-13)		12/9/21	13 50		Solid
FS14 (890-1707-14)		12/9/21	13 55		Solid
FS15 (890-1707-15)		12/9/21	13 57		Solid
FS16 (890-1707-16)		12/9/21	14 10		Solid
FS17 (890-1707-17)		12/9/21	14 20		Solid
FS18 (890-1707-18)		12/9/21	14 25		Solid
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte, & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank: 2					
Empty Kit Relinquished by: Date: Time: Method of Shipment:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks: 47.5 .10 IRB					

Eurofins Xenco, Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record



## Environment Testing America

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1707-1

SDG Number: 31403236.020.0129

Login Number: 1707

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1707-1

SDG Number: 31403236.020.0129

Login Number: 1707

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

List Creation: 12/14/21 01:29 PM

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 99622

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 99622
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/26/2022