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 5	OGRID 5380	
Contact Name Shelby Pennington		Contact Te	Contact Telephone 281-723-9353			
Contact ema	il shelby.g.pe	ennington@exxon	mobil.com	Incident #	(assigned by OCD)	
Contact mail	ing address	5401 Holiday Hill	Rd Bldg 5, Midla	nd, Texas, 79707		
			Location	of Release So	ource	
Latitude 32.3	31862			Longitude	-103.93613	
Latitude			(NAD 83 in dec	cimal degrees to 5 decim	nal places)	
Site Name	Nash Unit 43		_	Site Type p	Production Well	
Date Release		10/03/2021		API# (if app		
		10,00,2021				
Unit Letter	Section	Township	Range	Coun	ity	
J	12	23S	29E	Eddy	у	
G 6 0			" 1	N.		
Surface Owner	r: State	➤ Federal ☐ Tr	ribal Private (A	Name:)	
			Nature and	d Volume of F	Release	
	Mataria	l(s) Palacead (Salact of	I that apply and attach	and audations or specific	justification for the volumes provided below)	
Crude Oi		Volume Release		realeurations of specific	Volume Recovered (bbls) 2.40	
➤ Produced	Water	Volume Release	ed (bbls) 14.04		Volume Recovered (bbls) 12.60	
			tion of total dissolwater >10,000 mg		☐ Yes ☐ No	
Condensa	ite	Volume Release		5/1:	Volume Recovered (bbls)	
Natural C	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)	
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)	
Cause of Rel	ease The pac	king on the stuffii	ng box leaked, rel	easing fluids onto th	he pad. A vacuum truck was dispatched and recovered	
	all stan	ding fluids, includ			ents. A third-party contractor has been retained for	
	remedia	ation activities.				

Received by OCD: 4/19/20227:52:52 AMI
Form C-141 State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NAPP2128451743
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
☐ Yes 🗷 No		
100 [[100		
	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Re	esponse
The responsible	varty must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ive been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
✗ All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
	d above have <u>not</u> been undertaken, explain v	vhy:
NA		
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the O	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Shelby Pe	nnington	Title: Environmental Manager
Signature:	hells Pento	Date: 10/11/21
email: shelby.g.penningto	on@exxonmobil.com	Telephone: 281-723-9353
OCD Only		
-	na Marcus	Date: 10/12/2021
Received by: Ramo	iia iviaicus	Date

Location:	Nash Unit 43H		
Spill Date:	10/3/2021		
Area 1			
Approximate A	rea =	5138.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.75	inches
Average Porosi	ty Factor =	0.03	
VOLUME OF LEAK			
Total Crude Oil	=	2.67	bbls
Total Produced	Water =	14.04	bbls

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

Incident ID	NAPP2128451743
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 50 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50 (</u> ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

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

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

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Incident ID	NAPP2128451743
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:Adrian Baker	Title:	Environmental Coordinator	
Clobrian Bajes Signature:			
Signature:	Date:	01/01/2022	
Email:adrian.baker@exxonmobil.com	Telephone:	432-236-3808	
OCD Only			
Received by:	Date:		

PPage 6 of 74

Incident ID NAPP2128451743

District RP
Facility ID
Application ID

Remediation Plan

<u>Remediation Plan Checklist</u> : 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)					
<u>Deferral Requests Only:</u> Each of the following items must	t be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or are deconstruction.	ound production equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human	n health, the environment, or groundwater.				
rules and regulations all operators are required to report and/which may endanger public health or the environment. The a liability should their operations have failed to adequately inv	-				
Printed Name:Adrian Baker	Title:Environmental Coordinator				
Advison Bajes					
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	ions of Approval				
Signature: Chad Hend	Date: 02/18/2022				

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 69763

CONDITIONS

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

CONDITIONS

Created By		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

	Page 8 of 7	74
Incident ID	NAPP2128451743	
District RP		
Facility ID		
Application ID		

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	0.11 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 comp and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulatore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	ain release notification of a C-141 report by remediate contaminated a C-141 report doe allations. The response conditions that existe	ons and perform c the OCD does not ion that pose a the s not relieve the o sible party acknow d prior to the relea	orrective actions for releases which t relieve the operator of liability reat to groundwater, surface water, perator of responsibility for vledges they must substantially ase or their final land use in			
Printed Name: Adrian Baker	Title:	Environmenta	l Coordinator			
Signature: adrian.baker@exxonmobil.com	Date:	04/18/2022 _				
email: adrian.baker@exxonmobil.com	Telephone	e:	(432)-236-3808			
OCD Only						
Received by:	Date:					
Closure approval by the OCD does not relieve the responsible part remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	e water, human healt					
Closure Approved by:	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.



District II Page 2

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 Page 3

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.

Kind regards,

Nihaar Katoch

Assistant Consultant, Geologist

Aimee Cole

mée Cole

Sr. Consultant, Environmental Scientist

cc: Shelby Pennington, XTO

Adrian Baker, XTO

Bureau of Land Management



District II Page 4

Attachments:

Figure 1 Excavation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Photographic Log

Attachment 2 Laboratory Analytical Report

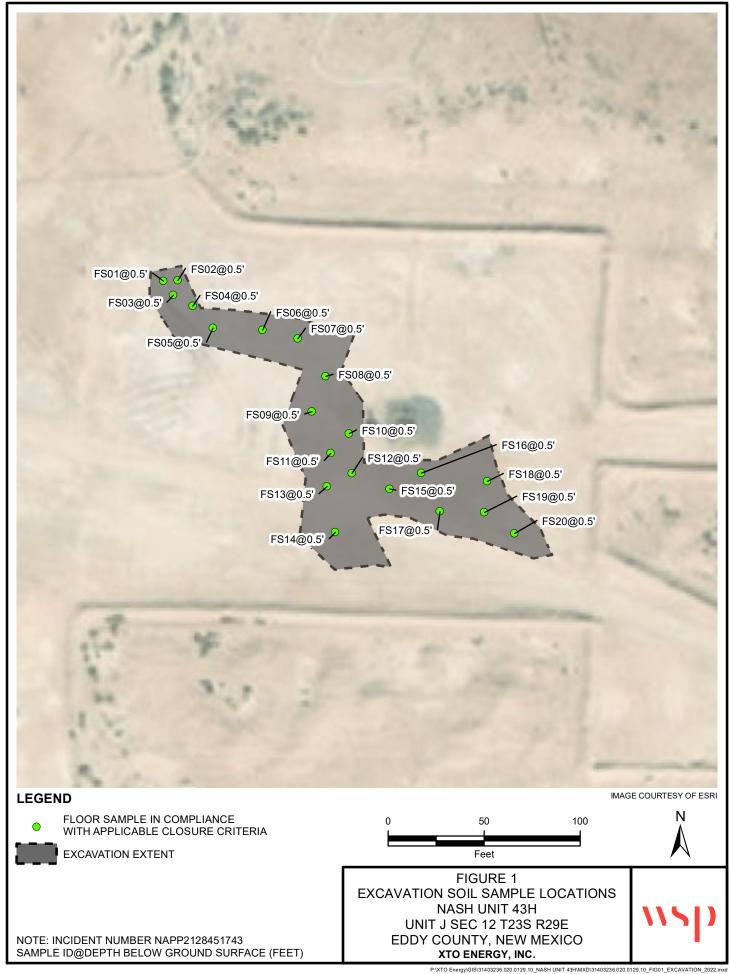


Table 1

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 Cl	losure Criteria (NM.	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Background Chlori	de Criteria									20,000
Excavation Soil San	nples									
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 Clo	osure Criteria (NM	AC 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

< - 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



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

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



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





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

J. KRAMER

Authorized for release by: 12/16/2021 8:12:34 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 4/26/2022 2:29:57 PM

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

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

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7

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10

12

13

14

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. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** 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

EDL LOD

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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	Dunlicate Error Ratio (normalized absolute difference)

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)

LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA

Limit of Detection (DoD/DOE)

Estimated Detection Limit (Dioxin)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

MI 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

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

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Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 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 weas 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.

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Lab Sample ID: 890-1707-1

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Client Sample ID: FS01

Date Collected: 12/09/21 10:15 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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 BTE	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	Kesuit <50.0		50.0	mg/Kg	— –	Prepared	12/13/21 12:32	Dii Fac
: Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)						
Analyte	•	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
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 13:04	
,	<50.0 <p><i>%Recovery</i></p>		50.0Limits	mg/Kg		12/14/21 16:40 Prepared	12/16/21 13:04 Analyzed	1
,				mg/Kg				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Surrogate	%Recovery		Limits	mg/Kg		Prepared	Analyzed	1 Dil Fac
Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	%Recovery 119 119 pmatography -	Qualifier Soluble	Limits 70 - 130 70 - 130			Prepared 12/14/21 16:40	Analyzed 12/16/21 13:04	1 Dil Fac
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 119 119 pmatography -	Qualifier	Limits 70 - 130	mg/Kg Unit mg/Kg	<u>D</u>	Prepared 12/14/21 16:40	Analyzed 12/16/21 13:04	1 Dil Fac

Client Sample ID: FS02

Date Collected: 12/09/21 10:17 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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

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Lab Sample ID: 890-1707-2

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Matrix: Solid

Lab Sample ID: 890-1707-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Client Sample ID: FS02

Date Collected: 12/09/21 10:17 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Method: 8021B -	Volatile Organic	Compounds	(GC)	(Continued)
MICHIOU. UUL ID	· voiatile Organic	Compounds		(Continueu)

Surrogate	%Recovery Qua	alifier 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 BT	FX - Tota	al BTFX	Calculation

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

Organia	15 NM - Diesel R	I Dane	2015 NM	Mothod: 80	N/A
a Organio	15 NW - Diesei R	e Kand	5U 15 NIVI -	vietnoa: au	IVIE

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

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
Oll 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	l imite			Prenared	Analyzed	Dil Fac

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
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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 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Method: 8021B -	. Volatila	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
4.4.5%			70 100			10/11/01 10 00	10/15/01 11 50	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII 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

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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Matrix: Solid

Lab Sample ID: 890-1707-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Client Sample ID: FS03

Date Collected: 12/09/21 10:19 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 13:46	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		12/14/21 16:40	12/16/21 13:46	1
C10-C28)								
Oll 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 Chro	matography -	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

Date Collected: 12/09/21 10:20

Lab Sample ID: 890-1707-4

Matrix: Solid

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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
			0.00001	mg/ng				
- ^{'''} -			0.00007	g/i.tg				
Method: 8015 NM - Diesel Range	Organics (DR		RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	e Organics (DR Result <50.0	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	O) (GC) Qualifier	RL	Unit	D	Prepared Prepared	Analyzed	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR) Result <	Qualifier U RO) (GC) Qualifier	RL 50.0	Unit mg/Kg		<u> </u>	Analyzed 12/13/21 12:32	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U U	RL 	Unit mg/Kg		Prepared	Analyzed 12/13/21 12:32 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <50.0 ge Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:07	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:07 12/16/21 14:07	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result <50.0 ge Organics (DI Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:07 12/16/21 14:07	1 Dil Fac

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Lab Sample ID: 890-1707-4

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Client Sample ID: FS04

Date Collected: 12/09/21 10:20 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chron	natography - S	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

Date Collected: 12/09/21 10:21

Lab Sample ID: 890-1707-5

Matrix: Solid

Date Collected: 12/09/21 10:21 Date Received: 12/13/21 04:54

Method: 8021B - Volatile Organi								
Analyte		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 BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T-1-I DTEV	<0.00398	11	0.00000				40/45/04 44:00	
Total BTEX : Method: 8015 NM - Diesel Rango			0.00398	mg/Kg			12/15/21 14:22	
· ''' -	e Organics (DR	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 12/13/21 14:22	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DRO Result <50.0	O) (GC) Qualifier	RL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rango Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	O) (GC) Qualifier U	RL 50.0	Unit mg/Kg			Analyzed 12/13/21 12:32	Dil Fac
Method: 8015 NM - Diesel Rango Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	RL	Unit mg/Kg	D D	Prepared	Analyzed 12/13/21 12:32 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 12/13/21 12:32	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U U	RL	Unit mg/Kg		Prepared	Analyzed 12/13/21 12:32 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:28	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR/Result <50.0 ge Organics (D/Result <50.0 <p><50.0</p>	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:28 12/16/21 14:28	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	e Organics (DR/Result <50.0 ge Organics (D/Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 FL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:28 12/16/21 14:28	Dil Fac
Method: 8015 NM - Diesel Rango Analyte	e Organics (DR Result <50.0 ge Organics (DI Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40 12/14/21 16:40 Prepared	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:28 12/16/21 14:28 12/16/21 14:28 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	e Organics (DR Result <50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery 102 101 romatography -	O) (GC) Qualifier U RO) (GC) Qualifier U U Qualifier	RL 50.0 RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40 12/14/21 16:40 Prepared 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:28 12/16/21 14:28 Analyzed 12/16/21 14:28	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	e Organics (DR Result <50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery 102 101 romatography -	O) (GC) Qualifier U RO) (GC) Qualifier U U	RL 50.0 RL 50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 16:40 12/14/21 16:40 12/14/21 16:40 Prepared 12/14/21 16:40	Analyzed 12/13/21 12:32 Analyzed 12/16/21 14:28 12/16/21 14:28 Analyzed 12/16/21 14:28	Dil Fac

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Lab Sample ID: 890-1707-6

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Client Sample ID: FS06

Date Collected: 12/09/21 10:45 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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	X 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
_								
Mathada 0045 NM - Diagal Daws	Ommonico (DD)	0) (00)						
Method: 8015 NM - Diesel Range	•		ΡI	Unit	n	Propared	Analyzod	Dil Fac
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/13/21 12:32	
Analyte Total TPH	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			12/13/21 12:32	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 12/14/21 15:08	12/13/21 12:32 Analyzed 12/15/21 10:48	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	12/13/21 12:32 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 12/14/21 15:08	12/13/21 12:32 Analyzed 12/15/21 10:48	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:08 12/14/21 15:08	12/13/21 12:32 Analyzed 12/15/21 10:48 12/15/21 10:48	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:08 12/14/21 15:08 12/14/21 15:08	Analyzed 12/15/21 10:48 12/15/21 10:48 12/15/21 10:48	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:08 12/14/21 15:08 12/14/21 15:08 Prepared	Analyzed 12/15/21 10:48 12/15/21 10:48 12/15/21 10:48 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:08 12/14/21 15:08 12/14/21 15:08 Prepared 12/14/21 15:08	Analyzed 12/15/21 10:48 12/15/21 10:48 12/15/21 10:48 Analyzed 12/15/21 10:48	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:08 12/14/21 15:08 12/14/21 15:08 Prepared 12/14/21 15:08	Analyzed 12/15/21 10:48 12/15/21 10:48 12/15/21 10:48 Analyzed 12/15/21 10:48	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac

Client Sample ID: FS07

Date Collected: 12/09/21 10:47

Date Received: 12/13/21 04:54

Sample Depth: 0.5

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)			70 - 130			12/14/21 12:00	12/15/21 13:14	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1707-7

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H 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)
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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 Calculati	on

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

Mothod: 9015 NM - Diocol Pango Oro	rapice (DPO) (CC)

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 - Diese	I Range Organics	(DRO)	(GC)
moundar of ros run Sido	tungo organioo	()	1/

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
OII 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

Surrogate	%Recovery	Qualifier	Limits	Prej	pared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	12/14/2	21 15:08	12/15/21 11:52	1
o-Terphenyl	104		70 - 130	12/14/2	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
l	Chloride	3560		50.0	mg/Kg			12/15/21 09:26	10

Client Sample ID: FS08 Lab Sample ID: 890-1707-8 Matrix: Solid

Date Collected: 12/09/21 10:50 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Method: 8021B -	. Volatila	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

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

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

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

Lab Sample ID: 890-1707-8

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Client Sample ID: FS08

Date Collected: 12/09/21 10:50 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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
Oll 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 Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	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

Released to Imaging: 4/26/2022 2:29:57 PM

Sample Depth: 0.5

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 (DR	O) (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 Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:34	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/14/21 15:08	12/15/21 12:34	1
C10-C28)								
OII 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

Eurofins Xenco, Carlsbad

Project/Site: Nash Unit 043H

Client: WSP USA Inc. Job ID: 890-1707-1 SDG: 31403236.020.0129

Lab Sample ID: 890-1707-9

Client Sample ID: FS09 Date Collected: 12/09/21 10:52 Date Received: 12/13/21 04:54

Matrix: Solid

Sample Depth: 0.5

	Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	1740		49.8	mg/Kg			12/15/21 09:39	10

Lab Sample ID: 890-1707-10 **Client Sample ID: FS10**

Date Collected: 12/09/21 10:55 Date Received: 12/13/21 04:54

Matrix: Solid

Sample Depth: 0.5

o-Terphenyl

Analyte

Chloride

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
T. (I DTEV	<0.00399	П	0.00399				12/16/21 21:04	
Total BTEX : Method: 8015 NM - Diesel Range			0.00399	mg/Kg			12/10/21 21:04	'
· ''' -	Organics (DR		0.00399 RL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	Organics (DR) Result <50.0	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR) Result <50.0 ge Organics (DI)	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR) Result <50.0 ge Organics (DI)	Qualifier U RO) (GC) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 12/13/21 12:32	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <50.0 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U U	RL 	Unit mg/Kg		Prepared	Analyzed 12/13/21 12:32 Analyzed	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/14/21 15:08	Analyzed 12/13/21 12:32 Analyzed 12/15/21 12:56	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:08 12/14/21 15:08	Analyzed 12/13/21 12:32 Analyzed 12/15/21 12:56 12/15/21 12:56	1 Dil Fac 1

70 - 130

RL

49.8

Unit

mg/Kg

Result Qualifier

859

Eurofins Xenco, Carlsbad

12/15/21 12:56

Analyzed

12/15/21 09:46

12/14/21 15:08

Prepared

D

Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble

Lab Sample ID: 890-1707-11

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Client Sample ID: FS11

Date Collected: 12/09/21 13:40 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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 BTE	(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 Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<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
Oll 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 Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS12

Date Collected: 12/09/21 13:45 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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)		S1+	70 - 130			12/14/21 12:00	12/15/21 16:26	

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Lab Sample ID: 890-1707-12

Matrix: Solid

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

Job ID: 890-1707-1 SDG: 31403236.020.0129

Client Sample ID: FS12

Date Collected: 12/09/21 13:45 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Lab Sample ID: 890-1707-12

Matrix: Solid

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
OII 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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/14/21 15:0	12/15/21 13:38	1
o-Terphenyl	104		70 - 130	12/14/21 15:0	3 12/15/21 13:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

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

Client Sample ID: FS13

Date Collected: 12/09/21 13:50

Lab Sample ID: 890-1707-13

Matrix: Solid

Date Collected: 12/09/21 13:50 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Mothod: 0021B Volutile Orga	ino compounds	(00)						
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 Diffuorobenzene (Surr)	O.S.		70 130			12/14/21 12:00	12/15/21 16:46	1

4-Bromofluoropenzene (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	DII 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 Qu	ualifier 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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Lab Sample ID: 890-1707-13

Lab Sample ID: 890-1707-14

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Client Sample ID: FS13

Date Collected: 12/09/21 13:50 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U F2	50.0	mg/Kg		12/14/21 15:12	12/16/21 16:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 16:54	1
C10-C28)								
Oll 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 Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	1090		49.7	mg/Kg			12/15/21 10:19	10

Client Sample ID: FS14

Date Collected: 12/09/21 13:55 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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 (DR	O) (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 Rang	je Organics (Di	RO) (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
Oll 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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Lab Sample ID: 890-1707-14

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Client Sample ID: FS14

Date Collected: 12/09/21 13:55 Date Received: 12/13/21 04:54

Sample Depth: 0.5

١	Method: 300.0 - Anions, Ion Chrom	natography -	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

Date Collected: 12/09/21 13:57

Lab Sample ID: 890-1707-15

Matrix: Solid

Date Collected: 12/09/21 13:57 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	
Toluene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/14/21 12:00	12/15/21 17:27	
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/14/21 12:00	12/15/21 17:27	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/14/21 12:00	12/15/21 17:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	124		70 - 130			12/14/21 12:00	12/15/21 17:27	
1,4-Difluorobenzene (Surr)	95		70 - 130			12/14/21 12:00	12/15/21 17:27	
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/16/21 21:04	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)				Doggan		DU E
Method: 8015 NM - Diesel Range Analyte	e Organics (DR	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fa
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	Qualifier U	RL 50.0	Unit mg/Kg			Analyzed 12/13/21 12:32	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/13/21 12:32 Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 12/13/21 12:32	Dil Fa
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U Qualifier U	RL	Unit mg/Kg		Prepared	Analyzed 12/13/21 12:32 Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/14/21 15:12	Analyzed 12/13/21 12:32 Analyzed 12/16/21 18:18	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:12 12/14/21 15:12	Analyzed 12/13/21 12:32 Analyzed 12/16/21 18:18 12/16/21 18:18	Dil Fa
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	e Organics (DR/Result <50.0 ge Organics (D/Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 50.0 RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:12 12/14/21 15:12 12/14/21 15:12	Analyzed 12/13/21 12:32 Analyzed 12/16/21 18:18 12/16/21 18:18	Dil Fa
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (DR Result <50.0 ge Organics (DI Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U Qualifier U	RL 50.0 RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:12 12/14/21 15:12 12/14/21 15:12 Prepared	Analyzed 12/13/21 12:32 Analyzed 12/16/21 18:18 12/16/21 18:18 12/16/21 18:18 Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	e Organics (DR/Result < 50.0 ge Organics (DR/Result < 50.0	Qualifier U RO) (GC) Qualifier U U Qualifier U	RL 50.0 RL 50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:12 12/14/21 15:12 12/14/21 15:12 Prepared 12/14/21 15:12	Analyzed 12/13/21 12:32 Analyzed 12/16/21 18:18 12/16/21 18:18 Analyzed 12/16/21 18:18	Dil Fa

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12/15/21 10:46

49.5

mg/Kg

2690

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Chloride

Matrix: Solid

Lab Sample ID: 890-1707-16

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Client Sample ID: FS16

Date Collected: 12/09/21 14:10 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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 BTE	X 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 Analyte	•	O) (GC) 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 Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		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
Oll 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 Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro	•	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS17

Date Collected: 12/09/21 14:20 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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)			70 - 130			12/14/21 12:00	12/15/21 18:08	1

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Lab Sample ID: 890-1707-17

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12/16/2024

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H 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 Compou	unds (GC) (Continued)
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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

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	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
Oll 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

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	12/14/21 15	5:12 12/16/21 18:5	9 1
o-Terphenyl	95		70 - 130	12/14/21 15	5:12 12/16/21 18:5	9 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 **Matrix: Solid**

Date Collected: 12/09/21 14:25 Date Received: 12/13/21 04:54

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

inomount of the following of gu	ino compoundo	()						
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 1 Diffuorabanzana (Surr)	101		70 120			12/14/21 12:00	10/15/01 10:00	1

Surrogate	%Recovery	Quaimer	Limits	Prepared	Analyzea	DII 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

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

Matrix: Solid

Lab Sample ID: 890-1707-18

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Client Sample ID: FS18

Date Collected: 12/09/21 14:25 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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
Oll 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 Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte								

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

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 (DR	O) (GC)						
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL 50.0		<u>D</u>	Prepared	Analyzed 12/13/21 12:32	Dil Fac
Analyte	Result <50.0	Qualifier U		Unit	<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		Unit	<u>D</u>	Prepared Prepared		1
Analyte Total TPH . Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	Unit mg/Kg			12/13/21 12:32	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 le Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	Unit mg/Kg		Prepared	12/13/21 12:32 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 12/14/21 15:12	12/13/21 12:32 Analyzed 12/16/21 19:40	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:12 12/14/21 15:12	12/13/21 12:32 Analyzed 12/16/21 19:40 12/16/21 19:40	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 12/14/21 15:12 12/14/21 15:12 12/14/21 15:12	Analyzed 12/16/21 19:40 12/16/21 19:40 12/16/21 19:40	1 Dil Fac

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12/16/2021

Job ID: 890-1707-1

Client: WSP USA Inc. Project/Site: Nash Unit 043H 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 Chrom	atography -	Soluble						
1	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	3090		50.4	mg/Kg			12/15/21 11:13	10

Lab Sample ID: 890-1707-20 **Client Sample ID: FS20** Matrix: Solid

Date Collected: 12/09/21 14:40 Date Received: 12/13/21 04:54

Sample Depth: 0.5

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	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
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 (DR	O) (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 Rang	e Organics (D	RO) (GC)						
Analyte		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
Oll 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 Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	2250		50.0	mg/Kg			12/15/21 11:19	10

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1707-1	FS01	125	109	
390-1707-1 MS	FS01	191 S1+	115	
390-1707-1 MSD	FS01	132 S1+	93	
390-1707-2	FS02	81	108	
390-1707-3	FS03	122	92	
390-1707-4	FS04	125	105	
390-1707-5	FS05	121	101	
390-1707-6	FS06	115	98	
390-1707-7	FS07	114	94	
390-1707-8	FS08	132 S1+	99	
390-1707-9	FS09	121	83	
390-1707-10	FS10	118	92	
390-1707-11	FS11	130	100	
390-1707-12	FS12	132 S1+	103	
390-1707-13	FS13	121	98	
390-1707-14	FS14	109	85	
390-1707-15	FS15	124	95	
390-1707-16	FS16	116	100	
390-1707-17	FS17	114	96	
390-1707-18	FS18	120	101	
390-1707-19	FS19	114	94	
390-1707-20	FS20	116	102	
CS 880-14759/1-A	Lab Control Sample	107	92	
CSD 880-14759/2-A	Lab Control Sample Dup	111	98	
MB 880-14759/5-A	Method Blank	119	94	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1707-1	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	

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1707-13	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

matrix. Cond				Trep type: Totalite
_				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(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

Job ID: 890-1707-1 Client: WSP USA Inc. Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

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

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

Matrix: Solid Analysis Batch: 14796 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14759

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

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	1:	2/14/21 12:00	12/15/21 10:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	1:	2/14/21 12:00	12/15/21 10:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14759

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

LCS LCS

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

Lab Sample ID: LCSD 880-14759/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Matrix: Solid

Analysis Batch: 14796

Analysis Batch: 14796

Prep Type: Total/NA Prep Batch: 14759

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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	

LCSD LCSD

Surrogate	%Recovery	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

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

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Client: WSP USA Inc. Job ID: 890-1707-1 SDG: 31403236.020.0129 Project/Site: Nash Unit 043H

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

Lab Sample ID:

Matrix: Solid

Analysis Batch: 14796

): 890-1707-1 MS	Client Sample ID: FS01
	Prep Type: Total/NA
h: 14796	Prep Batch: 14759

	Sample	Sample	эріке	IVIO	IVIO				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	

MS MS

Surrogate	%Recovery	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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

MSD MSD

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

Matrix: Solid

Analysis Batch: 14803

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

MB MB

Surrogate	%Recovery	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
	Pren Type: Total/NA

Prep Batch: 14783

Prep Batch: 14783

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

Job ID: 890-1707-1

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

SDG: 31403236.020.0129

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

LCS LCS

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

Matrix: Solid

Analysis Batch: 14803

Prep Type: Total/NA

Prep Batch: 14783

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

Lab Sample ID: LCSD 880-14783/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 14803

Prep Type: Total/NA

Prep Batch: 14783

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 908.5 91 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 924.4 92 mg/Kg 70 - 1305 20 C10-C28)

LCSD LCSD

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

Lab Sample ID: 890-1707-6 MS **Client Sample ID: FS06**

Matrix: Solid

Analysis Batch: 14803

Prep Type: Total/NA Prep Batch: 14783

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

C10-C28)

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

Lab Sample ID: 890-1707-6 MSD Client Sample ID: FS06

Matrix: Solid

Analysis Batch: 14803

Prep Type: Total/NA Prep Batch: 14783

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

C10-C28)

MSD MSD

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

QC Sample Results

Job ID: 890-1707-1 Client: WSP USA Inc. Project/Site: Nash Unit 043H SDG: 31403236.020.0129

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

104

105

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

MB	мв						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 15:52	1
<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 15:52	1
<50.0	U	50.0	mg/Kg		12/14/21 15:12	12/16/21 15:52	1
5	*						
MB	MB						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	Result < 50.0 <50.0 <50.0 MB	Result Qualifier	Result Qualifier RL	Result Qualifier RL Unit mg/Kg	Result Qualifier RL Unit D mg/Kg	Result Qualifier RL Unit D Prepared	Result Qualifier RL Unit D Prepared Analyzed <50.0

70 - 130

70 - 130

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

Matrix: Solid

1-Chlorooctane

o-Terphenyl

Analysis Batch: 14897

Client Sample ID: Lab Control Sample

12/16/21 15:52

12/16/21 15:52

12/14/21 15:12

12/14/21 15:12

Prep Type: Total/NA Prep Batch: 14785

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

LCS LCS %Recovery Qualifier Limits Surrogate 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 I	D: Lab	Control	Sample Dup
		Drop T	mo: Total/NA

Prep Type: Total/NA

Prep Batch: 14785

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

LCSD LCSD

Surrogate	%Recovery	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 Sam	ple ID: FS13
Prep Ty	pe: Total/NA

Prep Batch: 14785

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U F2	996	943.1		mg/Kg		90	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	996	1025		mg/Kg		103	70 - 130	

C10-C28)

Client: WSP USA Inc. Job ID: 890-1707-1 SDG: 31403236.020.0129 Project/Site: Nash Unit 043H

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

MC MC

Lab Sample ID: 890-1707-13 MS Client Sample ID: FS13

Matrix: Solid Prep Type: Total/NA Analysis Batch: 14897 Prep Batch: 14785

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

Lab Sample ID: 890-1707-13 MSD **Client Sample ID: FS13**

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 14897 Prep Batch: 14785

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F2	995	1236	F2	mg/Kg		120	70 - 130	27	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	995	1006		mg/Kg		101	70 - 130	2	20
C10-C28)											

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

Lab Sample ID: MB 880-14794/1-A Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 14897** Prep Batch: 14794 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 16:40	12/16/21 10:15	1
0.1. r.ago 0. gaoo (0.10. 020 000)	00.0	•	00.0	99			12/10/21 10:10	

	MB ME	В			
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
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 **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 14897 Prep Batch: 14794

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

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	115	70 - 130
o-Ternhenyl	110	70 130

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-14794/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 14897

 Prep Type: Total/NA

 Prep Batch: 14794

 %Rec.
 RPD

 iit
 D %Rec
 Limit

Spike LCSD LCSD Analyte Added Result Qualifier Unit Gasoline Range Organics 1000 898.3 mg/Kg 90 70 - 130 13 20 (GRO)-C6-C10 1000 880.0 88 70 - 130Diesel Range Organics (Over mg/Kg 19 20 C10-C28)

 LCSD
 LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 102
 70 - 130

Lab Sample ID: 890-1709-A-1-E MS Client Sample ID: Matrix Spike

70 - 130

Matrix: Solid

o-Terphenyl

Analysis Batch: 14897

109

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

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 84
 70 - 130

 o-Terphenyl
 86
 70 - 130

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

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 14897

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1433 F1 F2 U F1 F2 995 Gasoline Range Organics <50.0 142 70 - 130 20 mg/Kg 44 (GRO)-C6-C10 995 1226 F2 122 Diesel Range Organics (Over <50.0 U F2 mg/Kg 70 - 130 22 20 C10-C28)

 Surrogate
 %Recovery
 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

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 14809

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

1

2

3

4

6

1

9

10

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 14794

Prep Batch: 14794

111

13

14

Job ID: 890-1707-1

Client: WSP USA Inc. Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14791/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14809

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

Lab Sample ID: LCSD 880-14791/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14809

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 267.3 mg/Kg 107

Lab Sample ID: 890-1707-11 MS Client Sample ID: FS11 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14809

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

Lab Sample ID: 890-1707-11 MSD Client Sample ID: FS11 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14809

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

Lab Sample ID: MB 880-14792/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14832

MR MR

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

Lab Sample ID: LCS 880-14792/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 14832

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 252 9 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-14792/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14832

LCSD LCSD %Rec. RPD Spike Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 252.7 mg/Kg 101 90 - 110 20

Lab Sample ID: 890-1703-A-3-I MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14832

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 888 1250 2229 mg/Kg 107 90 - 110

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1703-A-3-J MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14832

Analysis Batch: 14832

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	888		1250	2172		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-1709-A-2-E MS Client Sample ID: Matrix Spike **Matrix: Solid**

MS MS

Prep Type: Soluble

%Rec.

Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 931 2480 3403 mg/Kg 100 90 - 110

Spike

Lab Sample ID: 890-1709-A-2-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 14832

Sample Sample

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 931 2480 3392 90 - 110 mg/Kg

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 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

GC VOA

Prep Batch: 14759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
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

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H 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 Batc
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	
390-1707-17	FS17	Total/NA	Solid	8015 NM	
390-1707-18	FS18	Total/NA	Solid	8015 NM	

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 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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 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 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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Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H 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	1479
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

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 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

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Analysis

300.0

Soluble

Job ID: 890-1707-1 SDG: 31403236.020.0129

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

Lab Sample ID: 890-1707-1

XEN MID

Client Sample ID: FS01 Date Collected: 12/09/21 10:15 Matrix: Solid Date Received: 12/13/21 04:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Client Sample ID: FS02 Lab Sample ID: 890-1707-2

14832 12/15/21 11:19 CH

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Date Collected: 12/09/21 10:17 Matrix: Solid Date Received: 12/13/21 04:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

SDG: 31403236.020.0129

Project/Site: Nash Unit 043H

Client: WSP USA Inc.

Lab Sample ID: 890-1707-4

Matrix: Solid

Matrix: Solid

Client Sample ID: FS04

Date Collected: 12/09/21 10:20 Date Received: 12/13/21 04:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Date Received: 12/13/21 04:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Lab Sample ID: 890-1707-7 **Client Sample ID: FS07**

Date Collected: 12/09/21 10:47 Date Received: 12/13/21 04:54

Released to Imaging: 4/26/2022 2:29:57 PM

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

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Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1707-1 Project/Site: Nash Unit 043H 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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Batch Dilution Batch Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 14759 12/14/21 12:00 MR XEN MID 8021B Total/NA 12/15/21 13:54 XEN MID Analysis 1 14796 KLTotal/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 Prep Total/NA 8015NM Prep 14783 12/14/21 15:08 DM **XEN MID** Total/NA XEN MID Analysis 8015B NM 1 14803 12/15/21 12:34 AJ 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 Date Received: 12/13/21 04:54

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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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Matrix: Solid

Job ID: 890-1707-1 SDG: 31403236.020.0129

Project/Site: Nash Unit 043H

Client: WSP USA Inc.

Lab Sample ID: 890-1707-11

Matrix: Solid

Client Sample ID: FS11 Date Collected: 12/09/21 13:40

Date Received: 12/13/21 04:54

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst 5035 Total/NA Prep 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 14932 12/16/21 21:04 XEN MID AJXEN MID 8015 NM Total/NA Analysis 1 14652 12/13/21 12:32 AJ XEN MID Total/NA 8015NM Prep 14783 12/14/21 15:08 DM Prep Total/NA Analysis 8015B NM 14803 12/15/21 13:17 AJ**XEN MID** Soluble 12/14/21 15:56 XEN MID Leach DI Leach 14791 CA

Client Sample ID: FS12 Lab Sample ID: 890-1707-12 Date Collected: 12/09/21 13:45

14809

12/15/21 09:53

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Matrix: Solid

XEN MID

Date Received: 12/13/21 04:54

Soluble

Analysis

300.0

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

Client Sample ID: FS13

Date Collected: 12/09/21 13:50 Date Received: 12/13/21 04:54

Lab Sample ID: 890-1707-13

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

Job ID: 890-1707-1

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

SDG: 31403236.020.0129

Client Sample ID: FS14

Lab Sample ID: 890-1707-14

Date Collected: 12/09/21 13:55 Date Received: 12/13/21 04:54 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

Lab Sample ID: 890-1707-15

Client Sample ID: FS15 Date Collected: 12/09/21 13:57

Date Received: 12/13/21 04:54

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

Date Received: 12/13/21 04:54

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Lab Sample ID: 890-1707-17 Client Sample ID: FS17

Date Collected: 12/09/21 14:20 Date Received: 12/13/21 04:54 **Matrix: Solid**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

Client: WSP USA Inc.

Job ID: 890-1707-1 Project/Site: Nash Unit 043H 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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 Date Received: 12/13/21 04:54

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc.

Project/Site: Nash Unit 043H

Laboratory References:

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

Job ID: 890-1707-1

SDG: 31403236.020.0129

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1707-1

 Project/Site: Nash Unit 043H
 SDG: 31403236.020.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	. ,	it the laboratory is not certifi	ed by the governing additionty. This list the	ay include analytes for
,	. ,	Matrix	Analyte	ay include analytes for t
the agency does not of	er certification.	•	, , ,	

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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
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
800.0	Anions, Ion Chromatography	MCAWW	XEN MID
6035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Released to Imaging: 4/26/2022 2:29:57 PM

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

Revised Date 051418 Rev. 2018 1		σ.			-						5
		P - 4			-						3
		2	disth	12/13/21	1/2		V V o	0	7	MO	W. W.
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	9	Date/Time		ure)	by: (Signature)	/ Received by:	,	: (Signature)	Relinquished by: (Signature)
	ances beyond the control viously negotiated.	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.	s incurred by but not anal	s or expense ed to Xenco,	ny losses submitte	sponsibility for a 5 for each sample	t assume any red a charge of \$	each project ar	st of samp e applied to	liable only for the coarge of \$75.00 will be	of service. Xenco will be liable only for the cost of sample of Xenco. A minimum charge of \$75,00 will be applied to
	It assigns standard terms and conditions	iliates and subcontractors. It assigns standar	enco, its aff	company to X	m client o	urchase order fro	itutes a valid p	f samples cons	uishment o	document and reling	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates
1631 / 245.1 / 7470 / 7471 : Hg	TI U	d Cr Co Cu Pb Mn Mo N	Ве	As	RCRA	TCLP / SPLP 6010: 8RCRA	TCLP / SF		to be ar	bue	Circle Methoa
Sn U V Zn	Mo Ni K Se Ag SiO2 Na Sr Tl	Cd Ca Cr Co Cu Fe Pb Mg Mn	Ba Be B	Al Sb As I	- 11	13PPM Texas 11	8RCRA 13		6020:	010 200.8 / 6020:	Total 200.7 / 6010
COMPOSITE			×	×		0.5'	1055	12/09/2021	S	0	FS10
COMPOSITE			×	×		0.5'		12/09/2021	S	9	FS09
COMPOSITE			×	×		0.5'	1050	12/09/2021	S	8	FS08
COMPOSITE			×	×	-1	0.5'	1047	12/09/2021	S	7	FS07
COMPOSITE			×	×	_	0.5'	1045	12/09/2021	s	6	FS06
COMPOSITE			×	×		0.5'	1021	12/09/2021	S	5	FS05
COMPOSITE			×	×	1	0.5'	1020	12/09/2021	S	Ā	FS04
COMPOSITE			×	×		0.5'	1019	12/09/2021	S	۵	FS03
COMPOSITE			×	×	_	0.5'	1017	12/09/2021	S	2	FS02
COMPOSITE			×	×	_	0.5'	1015	12/09/2021	S	1	FS01
Sample Comments	<i>ν</i> _α		Chlorid	TPH (E	Numb	Depth	Time Sampled	Date Sampled	Matrix	ntification	Sample Identification
if received by 4:30pm	a		-		er o	9:	Total Containers:	Tot	o N/A	als: Yes No	Sample Custody Seals:
TAT starts the day recevied by the	TAT sta		_		f Co	7.0-	Correction Factor:	Corr	1	_	Cooler Custody Seals:
	is to a year	890-1707 Cildin of Custony			nta	7	1-00	1-1/1	No No	, yes	Received Intact:
		200 1707 Chain of C			iners	Ī	Thermometer ID		3.4	3.61	Temperature (°C):
					;	es you	Wet ice:	(Yes No	Temp Blank:		SAMPLE RECEIPT
						Due Date:	Due			Alexis Castro	Sampler's Name:
API: 30-015-42206	AF		_			Rush: 24hr	Rus	001	1140771001		P.O. Number:
INC#: NAPP2128451743	INC#					Routine		Task# 10.02)20.0129	31403236.020.0129	Project Number:
Work Order Notes	W	ANALYSIS REQUEST				Turn Around	7	043H	Nash Unit 043H	z	Project Name:
Other:	Deliverables: EDD ADaPT	Email: Alexis Castro@wsp.com; tacoma morrissey@wsp.com Deliv	coma.mo	p.com; ta	ro@ws	l: Alexis.Cast	Emai			432.236.3849	Phone:
CRRY Level IV	∐evel III ∐°ST/UST		Carlsbad, NM 88220	Carlsbad,	. . 6	City, State ZIP)705	Midland, TX 79705	City, State ZIP:
_]		3104 E Green Street	3104 E G		Address:			Street	3300 North A Street	Address:
RC _uperfund _	□PRP □Brownfields	Prog	ду	XTO Energy	ame:	Company Name				WSP USA Inc.	Company Name:
S	Work Order Comments		=	Kyle Littrell	ent)	Bill to: (if different)			sey	Tacoma Morrissey	Project Manager:
1 5	0) www.xenco.com Page	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Atlanta, GA	0-355-0900)	x.AZ (48)	2-7550) Phoenii	s,NM (575-39	Hobb			
. 2		Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	915)585-34	L Paso,TX (5440) E	nd,TX (432-704-	Midla		10	SORATOR	LAG
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	902-0300	llas,TX (214	1200 Da	n,TX (281) 240-	Housto				×

Work Order No:

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Chain of Custody

3 0 11 0 11	1/1/1/1/	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such loss of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will	Total 200.7 / 6010 Circle Method(s)	FS20	FS19	FS18	FS17	FS16	FS15	FS14	FS13	FS12	FS11	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: A	P.O. Number:	Project Number:	Project Name:	Phone: 4	City, State ZIP: N	Address: 3	Company Name: W	Project Manager: T	LABI
1	1	(Signature)	cument and relinquishments only for the cost of size of \$75.00 will be applicable.	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	S	S	S	S	S	S	S	S	s	S	fication Matrix	Yes No	Yes No N	Yes No	3.6, 13.	Temp Blank:	Alexis Castro	1140	31403236.020.0129	Nash L	432.236.3849	Midland, TX 79705	3300 North A Street	WSP USA Inc.	Tacoma Morrissey	ABURATURIES
	1001	Received b	ant of samples constitu amples and shall not a ad to each project and	<u>ه</u>	12/09/2021	12/09/2021	12/09/2021	12/09/2021		12/09/2021	12/09/2021	12/09/2021	12/09/2021	12/09/2021	rix Date Sampled	N/A Total		1861	17	ınk: (Yes yNo		1140771001	129 Task# 10.02	Nash Unit 043H						Hobbs,
		Received by: (Signature)	ites a valid purchase o issume any responsibil a charge of \$5 for each	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA	1440 0	1430 0	1425 0	1420 0	1410 0	1357 0	1355 0	1350 0	1345 0	1340 0	Time De	Total Containers:	Correction Factor: -O	2 00	Thermometer ID	Wet ice: Yes	Due Date:	Rush: 24hr)2 Routine	Turn Around	Email: Alexis	City, S	Address	Comp	Bill to:	Midland.TX (43 NM (575-392-7550) F
	12//3/21		rder from client com lity for any losses or sample submitted t	Texas 11 Al Sb 10: 8RCRA Sb	0.5' 1	0.5	0.5	0.5'	0.51	0.5	0.5	0.5	0.5'	0.5'	Depth Number		f Co	onta	ainer	S				und	s.Castro@wsp.	City, State ZIP: Ca		Company Name: XT	Bill to: (if different))2-704-5440) EL P Phoenix,AZ (480-3)
	M. H 12/8	Date/Time	pany to Xenco, its af expenses incurred b o Xenco, but not ana	As As	× × ×	×	× ×	× ×	×	× ×	×	× ×	× ×	×	BTEX (EPA	0=8	021							com; tacoma.mo	Carlsbad, NM 88220	3104 E Green Street	XTO Energy	Kyle Littrell	aso,TX (915)585-34 55-0900) Atlanta,G
0 4		Relinquished by: (Signature)	ffiliates and subcontractors. It assigns the client if such losses are due to the client if such losses are due to alyzed. These terms will be enforced	cd Ca Cr Co d Cr Co Cu Pb														-						ANALYSIS REQUEST	Alexis.Castro@wsp.com; tacoma.morrissey@wsp.com	0	et			Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
		ature) Received by: (Signature)	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.	Mn Mo Ni Se Ag TI U																				UEST	Deliverables: EDD	level		Program: UST/PST PRP srownfields		3-620-2000) www.xenco.com
Dominad Data 101418 Day 2018		nature) Date/Time		1631/245.1/7470 /7471: Hg	COMPO	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	Sample Comments	lab, if received by 4.30pm	TAT starts the day recevied by the					API: 30-015-42206	INC#: NAPP2128451743	Work Order Notes	ADaP1 Diner:	Ę		wnfields RC uperfund	Work Order Comments	m Page 2 of 2

Work Order No:

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

💸 eurofins

Environment Testing

State Zip. **TX**, 79701 FS08 (890-1707-8) FS01 (890-1707-1) Vote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently medinal accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. FS07 (890-1707-7) FS06 (890-1707-6) FS05 (890-1707-5) FS04 (890-1707-4) FS03 (890-1707-3) FS02 (890-1707-2) Sample Identification - Client ID (Lab ID) Project Name Nash Unit 043H Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 Deliverable Requested I II III IV Other (specify) FS09 (890-1707-9) Midland Client Information Empty Kit Relinquished by ossible Hazard Identification 132-704-5440(Tel) 211 W Florida Ave elinquished by ırofins Xenco confirmed ipping/Receiving nquished by: (Sub Contract Lab) Custody Seal No アト Project #: 89000004 Primary Deliverable Rank PO# Due Date Requested 12/15/2021 Phone ⊃ate/Time FAT Requested (days))ate/Time 12-14-21 12/9/21 12/9/21 12/9/21 12/9/21 12/9/21 12/9/21 12/9/21 12/9/21 12/9/21 Mountain 10 52 Date Mountain 10 50 Mountain 10 47 Mountain 10 45 Mountain 10 21 Mountain 10 17 Mountain 10 20 Mountain 10 19 Time در (C=comp G=grab Sample Preservation Code: Type Company company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid jessica kramer@eurofinset.com Kramer Jessica E-Mail Time NELAP - Louisiana, NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

| Patrim To Client | Disposal Review | Disposal Revie Perform MS/MSD (Yes or No) Special Instructions/QC Requirements × × 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks × × × × \times \times × eceived by Return To Client × × × × × × × × × 8015MOD_Calc × × × \times × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × × × **Analysis Requested** Total_BTEX_GCV × × × × × × × × Disposal By Lab State of Origin
New Mexico Carrier Tracking No(s) Date/Time 12.12.6 A - HCL
B NaOH
C - Zn Acetate
C - Zn Acetate
D Nifric Acid
E - NaHSO4
F - NaH Archive For **Total Number of containers** 40 **,** COC No: 890-544 1 Page 1 of 3 390-1707-1 age 00:00 Special Instructions/Note M Hexane
N-None
O AsNaO2
P-Na2O4S
Q Na2SO3
R-Na2SC3
R-Na2SC3
T-TSP Dodecanydrate
U Acetone
U - MCAA Company Company Ver 06/08/202 V pH 4-5 other (specify) Months E

1089 N Canal St.

Carlsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199

Eurofins Xenco, Carlsbad

Chain of Custody Record

	Calliple			Cap rm						Carrier Tracking No(s):	acking r	lo(s):			COC No.	, 0				
Client Contact: (Sub Contract Lab)	Phone			E-Mail	sica				S	State of Origin:	rioin:				890-544 2 Page:	44 2				上
Shipping/Receiving				jessica kramer@eurofinset.com	er@eu	rofinse	t.com		Ļ	New Mexico	xico				Page	Page 2 of 3				
Eurofins Xenco				Accreditations Required (See note) NELAP - Louisiana, NELAP	Louis	quired (S siana, ↑	VELAP	- Texas	ī,						Job #: #:	Job #: 890-1707-1				
Address 1211 W Florida Ave	Due Date Requested 12/15/2021						Ana		vsis Requested	este	_				Prese	Preservation Codes	Codes	*		
City Midland	TAT Requested (days):	s)·			-		_					_	\dashv	Energed Co	A HCL	A HCL B NaOH		M Hexane N None	5 0	
State, Zip TX 79701					TPH		v							· · · · · · · · · · · · · · · · · · ·	D Nitric Acid	D Nitric Acid E - NaHSO4		P Na2O4S Q Na2SO3	ä ΐn k	
Phone: 432-704-5440(TeI)	#-)	D) Full	le	••••••							ng organisa Milikatan	F MeOH G - Amchlor	ichlor		R Na2S2O3 S - H2SO4	- 03	
Email	WO#			ovionate=swv+o	p (MOI	Chloric	EX							ff je		lce DI Water		U - Acetone V MCAA	Acetone MCAA	
Project Name Nash Unit 043H	Project #: 89000004			694P VIII) 6000	S_Pre	ACH (OD) BT							ainer	K EDTA	A TA	N1 -	W - pH 4-5 Z other (sp	- pH 4-5 other (specify)	
Site	SSOW#			100000000	NM_	N_LE	(MC							100-200	Other:					
		g	mole Matrix	red San																
Comple Identification Client ID (1 of ID)		Ф		हुँ jeid Filte erform M	016MOD_N	00_ORGFN	021B/5035							otal Num						
Completion Court In Law In	Sample Date		Preservation Code:	X	58.2		de sel				Seed S	4		XI		Specia		Special Instructions/Note:	s/Note:	1
FS10 (890-1707-10)	12/9/21	10 55 Mountain	Solid	ā	×	×	×											outpoline, contract and an		
FS11 (890-1707-11)	12/9/21	13 40 Mountain	Solid	ā	×	×	×			_				4	:					
FS12 (890-1707-12)	12/9/21	13 45 Mountain	Solid	ā	×	×	×													
FS13 (890-1707-13)	12/9/21	13 50 Mountain	Solid	ā.	×	×	×	$\widehat{}$						<u> </u>						
FS14 (890-1707-14)	12/9/21	13 55 Mountain	Solid	ā	×	×	×								***************************************					
FS15 (890-1707-15)	12/9/21	13 57 Mountain	Solid	ā	×	×	×	$\widehat{\exists}$, (8						
FS16 (890-1707-16)	12/9/21	14 10 Mountain	Solid	ā	×	×	×	$\hat{}$				_		44						
FS17 (890-1707-17)	12/9/21	14 20 Mountain	Solid	ā	×	×	×	$\hat{\exists}$						<u> </u>						
FS18 (890-1707-18)	12/9/21	14 25 Mountain	Solid	ā	×	×	×	Ĥ						(نقید						
Note: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alaboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	laces the ownership of bing analyzed the sam signed Chain of Custo	method analyte & sples must be ship ody attesting to sai	k accreditation co ped back to the E id complicance to	npliance upon ou urofins Xenco LL Eurofins Xenco L	it subcon C laboral LC.	itract lab	oratories ther inst). This s	ample s will be p	hipment rovided	is forwa Any ch	arded ur	der cha	iin-of-cı Jitation	ustody status	If the lal	boraton e broug	y does no ht to Euro	t currently fins Xenco LL	Ċ
Possible Hazard Identification				San	Sample Disposal (A fee	sposal	(A fe	e may	⊔ be as	sesse	d if sa	mples	□are	taine	d lon	may be assessed if samples are retained longer than 1 month	an 1 n	ronth)		
Deliverable Requested V Other (specify)	Primary Deliverable Rank. 2	ie Rank. 2		Spe	Special Instructions/QC	ial Instructions/QC	JS/QC	Requir	Requirements	ents	1	ľ		3		,		THE COLUMN	3	
Empty Kit Relinquished by:	0	Date		Time.			l			Ме	Method of Shipment:	Shipmer	7							
Relinquished by Coca C-14.2	Date/Time:		Company		Received by	Poy.	8		V				Pate/Tim/H-2	2		3.5	Co	Company		
Reliinquisted by Ealisquished by	12-14-21	13:1	Company		Tecessed by	P	2		7	D		Date/Time	me		6			Company		
reinquisieu by	Date/Time:		Company		Received by	by				•		Date/Time:	me.					Company		
Custody Seals Intact. Custody Seal No					Cooler Temperature(s) °C	emperati	ure(s) °C		and Other Remarks:	arks:	ا ء	\mathcal{F}		, GEOVES		ō	$_{H}$	H 100	2	
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eurofins Environment Testing

Ver 06/08/2021

Chain of Custody Record

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1089 N Canal St.	<u> </u>	Shain (Chain of Custody Record	todv R	ecor	<u>a</u> .												**************************************	💸 eurofins	Environment Testing
Carisbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199				,															-	America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer,	M ner, Jessica	ଥ					္စ	Carrier Tracking No(s)	rackin	No(s	٦			8 C	COC No 890-544 3	
	Phone			E-Mail· jessic	E-Mail· lessica.kramer@eurofinset.com	r@eur	ofins	et.cor	3		zg	State of Origin New Mexico	Origin					Page:	Page: Page 3 of 3	
Company Eurofins Xenco					Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	ons Rec	uired (See no	P ĕ	exas	ł	l	- 1					390-1 4 doL	Job #: 890-1707-1	
Address. 1211 W Florida Ave	Due Date Requested 12/15/2021	ă						₽	Analysis Requested	is R	<u>e</u>	ste	۱ ۵		l			P	Cod	*5
City Midland	TAT Requested (days):	ıys):				_	\neg					\dashv	一	一	_	\dashv		o @ >		M Hexane N None
State, Zip: TX, 79701					TOU		-,,					<u></u>		****				шο	Nitric Acid	P - Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO#:				- 7.1	D) Full	ie											ב ה ד	5	R - Na2S2O3 S H2SO4
Email	WO#				No)	P (MO	Chloric	ΓEX									S	<u> :</u>		U Acetone V-MCAA
Project Name Nash Unit 043H	Project #: 89000004				s or	_S_Pn	EACH	OD) B									taine	г х		W pH 4-5 Z other (specify)
Site	SSOW#:				SD (Y	OTSNM	ID/DI_L	Calc (M	:v								of cor	Š	Other:	
		-	Sample	Matrix (w=water S=solid,	Filtered orm MS/N	MOD_NM/8	ORGFM_28	3/6036FP_	_BTEX_GO								Number			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	4—	BT=Tissue, A=Air)	Per		300	802	Tot	_	-	-	-	-			Tot	SHISTO	Special Ins	Special Instructions/Note:
	$\bigg \rangle$	X	Preservation Code:	lion Code;	X					nella.					779		∇			
FS19 (890-1707-19)	12/9/21	14 30 Mountain		Solid		×	×	×	×								_	05,466		
FS20 (890-1707-20)	12/9/21	14 40 Mountain		Solid		×	×	×	×									atherina dell'		
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maintain accorditation in the State of Chigin Isted above for analysis/testsmatrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC bears or the functions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	eing analyzed the sa	amples must b stody attesting	e shipped back to said complic	to the Eurofins	Xenco LLC	laborat C.	ory or a	porato other ir	nes. I Istructi	nis san ons wil	be pr	ovided	Any	warde	es to	er cha accre	ditatio	n sta	tus should be brou	light to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					Sam	Sample Disposal (A	le Disposal (A	Chen	fee may be assessed if samples	nay b	e ass	assessed if san Disposal By Lah	P d	a amp	les	□are	etair	hive de	retained longer than 1.	month)
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank. 2	able Rank.	2		Spec	Special Instructions/Q	ructic	ins/Q	C Requirements	uirer	nents		ŀ							
Empty Kit Relinquished by		Date			Time.							Σ	Method of Shipment:	of Ship	ment					
Relinquished by May Case 12.14.	Date/Time:			Company	Z	Received by	10 1	M	W	٧				Da	Date/Time: 142	# / c	7	2	76 1	, Company
Relinquished by	12-14-2		73.14	Company	20	Received by	A S	d	21	//		T	1//	Da	Date/Time	Ð,				Company
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Custody Seals Intact. Custody Seal No					C	Cooler Temperature(s)	empera	ture(s)	°C an	and Other Remarks	Rema	ξs		ے'	سل	-	1		.10	HRB

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1707-1

SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Carlsbad

Login Number: 1707 List Number: 1 Creator: Clifton, Cloe

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

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Eurofins Xenco, Carlsbad

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1707-1

SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Midland

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

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 1707

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	

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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 99622

CONDITIONS

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

CONDITIONS

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