Received by OCD: 12/30/2021 4:48:04 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 1 of 13 .
Incident ID	NAPP2118934484
District RP	
Facility ID	
Application ID	

Remediation Plan

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Adrian Baker Title: Environmental Coordinator		
Adrian Baks Signature: Date:01/01/2022		
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 With Attached Conditions of Approval Denied Deferral Approved		
Signature: Date: 02/18/2022		

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 Page 2cof 132

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2118934484
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude	
Latitude	

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls)	Volume Recovered (bbls)
s the concentration of total dissolved solids (TDS) n the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Ì	s the concentration of total dissolved solids (TDS) n the produced water >10,000 mg/l? /olume Released (bbls) /olume Released (Mcf)

Page 2

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name:	Title:
Signature: altrian Dafts	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>7/8/2021</u>

•

Location:	Nash 39 Battery		
Spill Date:	7/3/2021		
	Area 1		
Approximate A	rea = 12966.00	sq. ft.	
Average Satura	tion (or depth) of spill = 0.75	inches	
Average Porosi	Average Porosity Factor = 0.15		
	VOLUME OF LEAK		
Total Crude Oil	= 2.88	bbls	
Total Produced Water = 573.77 I		bbls	
	TOTAL VOLUME OF LEAK		
Total Crude Oi	= 2.88	bbls	
Total Produced Water = 573.77		bbls	
	TOTAL VOLUME RECOVERED		
Total Crude Oi	= 2.78	bbls	
Total Produced	Water = 552.23	bbls	

	Page 5 of 13.
Incident ID	NAPP2118934484
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🛛 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🛛 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes 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.

Received by OCD: 12/30/2021	4:48:04 PM State of New Mexico			Page 6 of 13				
			Incident ID	NAPP2118934484				
Page 4	Oil Conservation Division		District RP					
			Facility ID					
			Application ID					
regulations all operators are requ public health or the environmen failed to adequately investigate	tion given above is true and complete to the b uired to report and/or file certain release notif t. The acceptance of a C-141 report by the O and remediate contamination that pose a threa C-141 report does not relieve the operator of r	ications and perfo CD does not reliev at to groundwater,	rm corrective actions for reve the operator of liability s surface water, human heal	eleases which may endanger should their operations have th or the environment. In				
Printed Name:Adria	an Baker n Bakos	Title:	_Environmental Coordir	nator				
Signature:		Date:	_01/01/2022					
Email:adrian.baker	@exxonmobil.com	Telephone: _	432-236-3808					
OCD Only								
Received by:		Date:						

Received by OCD: 12/30/2021 4:48:04 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 7 of 13	2
Incident ID	NAPP2118934484	
District RP		
Facility ID		
Application ID		

Remediation Plan

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.									
Deterrar Requests Omy. Each of the following terms must be confirmed as part of any request for deferrat of remeatation.									
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.									
Extents of contamination must be fully delineated.									
Contamination does not cause an imminent risk to human health, the environment, or groundwater.									
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name: Adrian Baker Title: Environmental Coordinator									
Advion Bates									
Signature: Date: 01/01/2022									
Email:adrian.baker@exxonmobil.com Telephone:432-236-3808									
OCD Only									
Received by: Date:									
Approved Approved with Attached Conditions of Approval Denied Deferral Approved									
Signature: Date:									

Page 5

WSP USA

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

January 01, 2022

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

RE: Remediation Work Plan Nash 39 Tank Battery Incident Number NAPP2118934484 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Remediation Work Plan (Work Plan) detailing site assessment activities completed to date and a proposed work plan to address impacted soil at the Nash 39 Tank Battery (Site) in Unit K, Section 12, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The following Work Plan proposes to establish a naturally occurring chloride concentration to be applied at the Site, complete excavation of impacted soil exceeding the Site Closure Criteria and/or the background chloride concentrations, and a variance to the sampling frequency due to the estimated size of the proposed excavation.

RELEASE BACKGROUND

On July 3, 2021 produced water tanks caught fire due to a lightning strike, resulting in the release of 2.88 barrels (bbls) of crude oil and 573.77 bbls of produced water into the damaged containment and onto the surface of the well pad. The fire department was contacted immediately, and the fire was extinguished. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 2.78 bbls of crude oil and 552.23 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on July 4, 2021 and a Release Notification Form C-141 (Form C-141) was submitted July 8, 2021. The release was assigned Incident Number NAPP2118934484. Initial response and removal of damaged equipment delayed remediation work at the Site. A 90-day extension request for submitting a remediation work plan or closure request was submitted to the NMOCD via email on September 29, 2021.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground

District II Page 2

surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is the NM OSE well C-4472 located approximately 1.2 miles Southeast of the Site. The well was last measured in October 2020. The groundwater well has a reported depth to groundwater of 37 feet bgs and a total depth of 55 feet bgs. The referenced well records are included in Attachment 1.

The nearest continuously flowing water or significant watercourse to the Site is a salt lake located adjacent to and surrounding the Site. The Site is located within 200 feet of a lakebed and 300 feet from a wetland. The Site is not located near a 100-year floodplain. The Site is located greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is located greater than 1,000 feet to a freshwater well or spring. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On August 25, 2021 WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected six preliminary assessment soil samples (SS01 through SS06) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site assessment and a photographic log is included in Attachment 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gas range

District II Page 3

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.

Laboratory analytical results for preliminary soil samples SS01 through SS06 indicated that TPH, and/or chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, additional delineation activities were scheduled.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On October 7, 2021, WSP personnel returned to the Site to oversee delineation activities. Four potholes (PH01 through PH04) were advanced via track-hoe within the release extent to delineate vertical extent of impacted soil. The potholes were advanced to a maximum depth of 4 feet bgs. Delineation soil samples were collected from the potholes at depths ranging from 1-foot bgs to 4-feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. Pothole soil sample locations are depicted on Figure 2. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04, indicated that benzene, BTEX, and TPH concentrations were compliant with the Closure Criteria. However, chloride concentrations exceeded Closure Criteria in all delineation samples from each pothole. The laboratory analytical results are summarized on the attached Table 1. Due to the proximity of the salt lake, background sampling was scheduled to investigate naturally occurring chloride concentrations at the Site.

BACKGROUND SOIL SAMPLING AND ANALYTICAL RESULTS

Six background potholes (BG01 through BG06) were advanced via track-hoe in undisturbed areas surrounding the well pad. The potholes were advanced to a maximum depth of 4 feet bgs. Soil samples were collected from the background potholes at depth ranging from 1 foot bgs to 4 feet bgs. Soil from the potholes was field screened for chloride utilizing chloride QuanTab[®] test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The background pothole locations are depicted on Figure 3. The soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the background soil samples indicated naturally occurring chloride concentrations ranged from 2,390 mg/kg to 30,200 mg/kg at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

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PROPOSED REMEDIATION WORK PLAN

Based on the proximity of the salt lake and laboratory analytical results for 22 separate background soil samples collected in undisturbed areas, chloride naturally occurs in the subsurface at concentrations ranging from 2,390 mg/kg to 30,200 mg/kg. As such, WSP proposes a site-specific Closure Criteria for chloride concentrations in soil of 30,200 mg/kg. Except in the areas near preliminary soil samples SS01 and SS03, chloride concentrations in surface soil within the release footprint exceed the proposed background concentration. At SS01, TPH concentrations exceeding Table 1 Closure Criteria exist.

WSP proposes to excavate the impacted surface soil identified in the release footprint (except near the northeastern edge at SS03 and PH04) to below the Site Closure Criteria of 100 mg/kg for TPH and below a background chloride concentration of 30,200 mg/kg. The excavation area is estimated to be approximately 14,300 square feet and will be completed to an approximate depth of 1 foot bgs. Following excavation, confirmation samples will be collected from the floor and sidewalls of the excavation.

Due to the estimated size of the excavation, XTO requests a variance for frequency of excavation confirmation samples. XTO proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 72 samples) to every 500 square feet (approximately 29 samples). Each 5-point composite floor sample will represent a 500 square foot area. Due to the anticipated shallow depth of the excavation, sidewalls will be included in the floor samples. Should the excavation depth exceed 2 feet bgs, sidewall samples will be collected separately at a frequency of 200 square feet. The confirmation soil samples will be placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples will be handled as described above and analyzed for BTEX, TPH, and chloride at Eurofins in Carlsbad, New Mexico.

XTO will begin the proposed remediation activities within 90 days of the date of approval of this work plan by NMOCD.

District II Page 5

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

Sincerely,

WSP USA Inc.

Ashley L. ager

Nihaar Katoch Assistant Consultant, Geologist

Ashley L. Ager, P.G. Senior Geologist

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

Attachments:

- Figure 1 Site Location Map
- Figure 2 Soil Sample Locations
- Figure 3 Background Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Photographic Log
- Attachment 3 Lithologic / Soil Sampling Logs
- Attachment 4 Laboratory Analytical Reports

FIGURES

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P:\XTO Energy\GIS\31403236.020.0129.05_NASH 39 TANK BATTERY\MXD\31403236.020.0129.05_FIG01_SL_RECEPTOR_2021_1.mxd





TABLES

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Table 1

Soil Analytical Results Nash 39 Tank Battery NAPP2118934484 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	osure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	08/25/2021	0.5	< 0.00200	< 0.00401	127	<50.0	< 0.00401	127	127	17,200
SS02	08/25/2021	0.5	< 0.00199	< 0.00398	112	<49.9	< 0.00398	112	112	38,800
SS03	08/25/2021	0.5	< 0.00200	< 0.00400	<49.9	<49.9	< 0.00400	<49.9	<49.9	16,400
SS04	08/25/2021	0.5	< 0.00200	< 0.00401	1,590	<49.8	< 0.00401	1,590	1,590	41,600
SS05	08/25/2021	0.5	< 0.00200	< 0.00400	574	<49.9	< 0.00400	574	574	39,700
SS06	08/25/2021	0.5	< 0.00200	< 0.00399	784	<50.0	< 0.00399	784	784	55,400
Delineation Samples	5									
PH01A	10/07/2021	2	< 0.00199	0.0088	83.7	<49.9	<49.9	83.7	83.7	2,550
PH01C	10/07/2021	4	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	4,260
PH02	10/07/2021	1	< 0.00201	< 0.00402	51.4	<50.0	<50.0	51.4	51.4	4,580
PH02C	10/07/2021	4	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	3,150
PH03	10/07/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,720
РН03С	10/07/2021	4	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	10,900
PH04A	10/07/2021	2	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,280
PH04C	10/07/2021	4	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	14,400
Background Sample	es s									
BG01	10/07/2021	1	NA	NA	NA	NA	NA	NA	NA	8,410
BG01A	10/07/2021	2	NA	NA	NA	NA	NA	NA	NA	8,210
BG01B	10/07/2021	3	NA	NA	NA	NA	NA	NA	NA	6,670
BG01C	10/07/2021	4	NA	NA	NA	NA	NA	NA	NA	10,900

WSP

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Table 1

Soil Analytical Results Nash 39 Tank Battery NAPP2118934484 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	sure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
BG02	10/07/2021	1	NA	NA	NA	NA	NA	NA	NA	18,600
BG02A	10/07/2021	2	NA	NA	NA	NA	NA	NA	NA	15,900
BG02B	10/07/2021	3	NA	NA	NA	NA	NA	NA	NA	30,200
BG02C	10/07/2021	4	NA	NA	NA	NA	NA	NA	NA	5,150
BG03	10/07/2021	1	NA	NA	NA	NA	NA	NA	NA	7,530
BG03A	10/07/2021	2	NA	NA	NA	NA	NA	NA	NA	6,350
BG03B	10/07/2021	3	NA	NA	NA	NA	NA	NA	NA	14,600
BG03C	10/07/2021	4	NA	NA	NA	NA	NA	NA	NA	2,390
BG04	10/07/2021	1	NA	NA	NA	NA	NA	NA	NA	8,910
BG04A	10/07/2021	2	NA	NA	NA	NA	NA	NA	NA	5,790
BG04B	10/07/2021	3	NA	NA	NA	NA	NA	NA	NA	5,980
BG04C	10/07/2021	4	NA	NA	NA	NA	NA	NA	NA	13,800
BG05	10/07/2021	1	NA	NA	NA	NA	NA	NA	NA	10,800
BG05A	10/07/2021	2	NA	NA	NA	NA	NA	NA	NA	5,650
BG05B	10/07/2021	3	NA	NA	NA	NA	NA	NA	NA	8,460
BG05C	10/07/2021	4	NA	NA	NA	NA	NA	NA	NA	13,700

WSP

Table 1

Soil Analytical Results Nash 39 Tank Battery NAPP2118934484 Eddy County, New Mexico

Sample ID	Sample IDSample DateSample Depth (ft bgs)		Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
BG06	10/07/2021	1	NA	NA	NA	NA	NA	NA	NA	10,400
BG06A	10/07/2021	2	NA	NA	NA	NA	NA	NA	NA	9,740

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

WSP

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WELL RECORD & LOG

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www.ose.state.nm.us

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z	OSE POD NO. (WELL NO.) POD1 (BH-01)				WELL TAG ID NO. OSE FILE NO(n/a C-4472			(\$).					
ATI0	WELL OWN		3(S)						PHONE (OPTI	ONAL)			
LOC.	XTO Ener			-									
MELL	WELL OWN 6401 Holid								CITY STATE ZIP Midland TX 79707				ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO		LATT	TUDE	GREES 32°	MINUTES 18'	SECO	90" _N	 ACCURACY REQUIRED: ONE TENTH OF A SECOND DATUM REQUIRED: WGS 84 				<u> </u>
CNER	(FROM GF			JUDE	-103°	55'	51.			-			
1. GI	Description relating well location to street address and common landmarks – plss (section, township, range) where available NE NE SE (Unit 1) Sec. 13 T23S R29E												
	LICENSE NO 124			NAME OF LICENSED		Jackie D. Atkins				NAME OF WELL DRI Atkins Eng		OMPANY Associates, I	nc.
	DRILLING STARTED DRILLING ENDED 09/11/20 09/11/20					OMPLETED WELL (FT rary well material		BORE HO	LE DEPTH (FT) 55	DEPTH WATER FIRS	ST ENCOL ±37	• •	
Z	COMPLETE	D WELL I	S:	ARTESIAN	DRY HO	LE 🔽 SHALLON	W (UNCO	ONFINED)		STATIC WATER LEV	TEL IN CO 37	MPLETED WE	LL (FT)
DITA	DRILLING F	LUID:		✓ AIR	MUD	ADDITIVI	ES – SPE	CIFY:	·				
ORM	DRILLING METHOD: ROTARY			HAMMER CABLE TOOL OTHER			R - SPECIFY: Hollow Stem Auger						
2. DRILLING & CASING INFORMATION	DEPTH FROM	DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and		CASING CONNECTION TYPE		CASING INSIDE DIAM.			SLOT SIZE (inches)		
CAS	0	55		±8.5		sections of screen) Boring- HSA		(add coupl	ling diameter)				-
NG &						•							
ILLI													
DR													
7													
			·				· · · · · · · · ·						
				1							<u> </u>		
T	DEPTH			BORE HOLE DIAM. (inches)		ST ANNULAR SE VEL PACK SIZE-							D OF IENT
ANNULAR MATERIAL	FROM	то	•	. ,									
IATI			-										
NR N													
UL.													
ANN													
З.											_		
				I,,	I								
FOR FILE	OSE INTER			172		POD NO.		7	WR-20) <u>WELL RECORD</u> 8 10. /, 11	$\frac{100}{\sqrt{6}}$	Version 06/30	<u>//17)</u>
	ATION				5.298	E. B.42		<u> </u>	WELL TAG II			PAGE	1 OF 2

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19E00000**52**000×2024

	DEPTH (1 FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL F R-BEARING CAVITIES C plemental sheets to fully d	OR FRAC	TURE ZONE	s	WAT BEARI (YES /)	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	0	2	2	Sand, Medium, po	orly-graded with silt and gra	avel, no	plasticity, Brow	7.1	Y	✓ N		
	2	19	17		creased cementation with d				 Y	✓ N		
	- 19	40	21		stone with micro crystalline							
	40	55	15		Fat inorganic, High Plastici				✓ Y	N N		
									Y	N		
Ŀ					······································				Y	N		
VELJ		· · · · · ·			· · · · · · · · · · · · · · · · · · ·				Y	N		
DF V	·						<u></u>		Y	N		
ğ									 Y	N		
CL									 Y	N		
ÖÜ										N		
4. HYDROGEOLOGIC LOG OF WELL									 Y	N		
Ő									Y	N		
IQX I									Y	N		
4. H								_	Y	N		
									Y	N		
									<u>Y</u>	N		
						·			 Y	N		
									<u> </u>	N		
									Y	N		
		<u></u>							Y	N		
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING			T	TOTA	L ESTIM			
					HER – SPECIFY:				. YIELD		0.00	
NOIS	WELL TES				A COLLECTED DURING							
	MISCELLA	NEOUS INF	ORMATION: Te	mporary well materia	ls removed and the soil l	boring p	lugged using	Type I/	/II Neat (Cement	Slurry (<6.0	
TEST; RIG SUPERV			ga	llons per 94 lbs. sack gs adapted from LTE) from total depth to sur	face.					•	
IC S			L	65 uoupuot nom 211	on-site Boologist.							
T; R												
TES	PRINT NAM	E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVI	ISION O	F WELL CON	STRUC	TION OT	HER TH	AN LICENSEE:	
s.	Shane Eldric	lge		····	····				_			
					EST OF HIS OR HER KNO							
URE					D THAT HE OR SHE WIL PLETION OF WELL DRIL		THIS WELL R	ECORE) WITH T	HE STA	TE ENGINEER	
VAT	0											
SIGNATURE	Jack Ath	ins		Jac	kie D. Atkins				10/06/2	2020		
6		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME				T	DATE		
	OSE INTERI							-			sion_06/30/2017)	
	E NO.	2-44	12		POD NO.	г	TRN NO.	(e	774	04		
LOC	CATION					WELL	TAG ID NO.	-			PAGE 2 OF 2	

2020-10-05_C-4472POD1_OSE_Well Record and Log-forsign

Final Audit Report

2020-10-06

Created:	2020-10-06
Ву:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
 Transaction ID:	CBJCHBCAABAAVNExAMfaqXv8kEK9Z4CDvLMLBTSbjMjK

"2020-10-05_C-4472POD1_OSE_Well Record and Log-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-06 3:00:23 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-10-06 - 3:00:55 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2020-10-06 - 4:18:52 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2020-10-06 - 4:20:55 PM GMT - Time Source: server- IP address: 74.50.153.115
- Agreement completed. 2020-10-06 - 4:20:55 PM GMT

35E 3E CC1 6 2020 №2:24





2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

10/06/2020

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4472 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4472 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Gran Middle

Lucas Middleton

Enclosures: as noted above



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category: Site Information V **Geographic Area: United States**

GO

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- Full News

USGS 321742103552601 23S.30E.19.123421

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

Latitude 32°17'42", Longitude 103°55'26" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 100 feet Land surface altitude: 3,034 feet above NAVD88. Well completed in "Other aguifers" (N99990THER) national aguifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count		
Field groundwater-level measurements	1959-02-06	1993-05-06	8		
Field/Lab water-quality samples	1972-09-20	1972-09-20	1		
Revisions	Unavailable (site:0) (timeseries:				

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips **Explanation of terms**



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National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category: Geographic Are			a:		
obdo mater Resources	(cooperator Access)	Groundwater	~	United States	~	GO	

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- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 321742103552601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321742103552601 23S.30E.19.123421

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°17'42", Longitude 103°55'26" NAD27 Land-surface elevation 3,034 feet above NAVD88 The depth of the well is 100 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

USGS 321742103552601 235.30E.19.123421 2972 62 feet Depth to water level, feet below land 2970 64 1988 2968 66 ø ø 2966 68 ø ø surface above 70 2964 72 2962 Level 74 2960 Groundwater 76 2958 78 2956 1961 1964 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 Period of approved data

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

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2021-12-09 16:05:16 EST 0.71 0.65 nadww02



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Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2021-12-09 16:10:48 EST 0.3 0.27 sdww02



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wsp

	PHOTOGRAPHIC LOG	
XTO Energy	Nash 39 Tank Battery	NAPP2118934484
	Eddy County, New Mexico	

Photo No.	Date					
1	July 4, 2021	0.0000 00000000000000000000000000000000		0000	a 11	NIM/202
Spill extent fac	ing North West.	Widdle 32,31 883, -103.94054 Widdle 32,31 883, -103.94054 Nash 39 bry 200 200 Loving, NM 88256, United States to 04-Jul-21 09:42:06 200	Alton	2988		NW333

Photo No.	Date	
2	August 25, 2021	
	g North West. Note	
	the damaged tank	
bat	tery.	

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Released to Imaging: 2/18/2022 8:58:44 AM

									BH or PH Name:	Date:				
					ws	PUSA			PH 01					
				-			Area t		Site Name: Nash 39 Tank Batt	10/7/2021				
				c Car	sbad. Ne	Stevens S w Mexico			RP or Incident Number: NAPF					
									WSP Job Number: 31403236.0					
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	Logged By: AC	Method: Trackhoe						
Lat/Lo	ong:	32.31903			Field Scre		_		Hole Diameter:	Total Depth:				
0					Chloride,	PID			2.25"	4'				
Comn	Comments:													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litholog	y/Remarks				
D	6,476	1.2	N		1 _	0		Silty Sar	d					
D	2,072	1.7	Ν	PH01 A	2	2	CCHE	Caliche						
D	1568	0.4	Ν		3	3	CCHE	Caliche						
						Γ								
D	4,768	0.6	Ν	PH01 C	4	4	CCHE	Caliche						
					-									
$\ $							TD	@ 4 ft b	gs					
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									BH or PH Name:	Date:	
					WS	P USA	PH 02	10/7/2021			
				5	08 West	Stevens S	Street		Site Name: Nash 39 Tan		
				Carl	sbad, Ne	Stevens S w Mexico	88220		RP or Incident Number: NAPP2118934484		
									WSP Job Number: 31403		
				IC / SOIL				Logged By: AC	Method: Trackhoe		
Lat/Lo	ing:	32.31903	, -103.9	94152	Field Scre Chloride,				Hole Diameter: 2.25"	Total Depth: 4'	
Comm	nents:				5			Į.`			
							X				
ure	de (2 (bu	# e	Sample	Danth	USCS/Rock Symbol				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	(ft bgg)	/S/F		Lith	ology/Remarks	
ĭ ŭ	C C	> _	St	Sa	(ft bgs)	(NC NC				
						0	_				
	4 700	0.0	N		4	- 1	CM	Ciltura e e	ما		
D	4,768	8.8	Ν	PH02	1	1		Silty san	u		
D	2,600	1	Ν		2	2	CCHE	Caliche			
D	3456	1.2	Ν		3	3	CCHE	Caliche			
	0 450	4 7	K I		-	Γ					
D	3,456	1.7	Ν	PH02 C	4 _	4	CORE	Caliche			
					-) @ 4ft bg			
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					MS	P USA			BH or PH Name:	Date:	
									PH 03	10/7/2021	
				5	08 West S	Stevens S	Street		Site Name: Nash 39 Tank E		
				Car	sbad, Ne	w Mexico	88220		RP or Incident Number: NA		
									WSP Job Number: 31403236		
LITHOLOGIC / SOIL SAMPLING LOG									Logged By: AC	Method: Trackho	e
Lat/Lon	ng:	32.31903	3, -103.	94152	Field Scree Chloride,				Hole Diameter: 2.25"	Total Depth: 4'	
Comme	ents:				Chioride,	PID			2.23	4	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lithold	ogy/Remarks	
D	3,756	0.3	Ν	PH03	1 _	0	CCHE	Caliche			
D	4,072	0.2	Ν		2	2	CCHE	Caliche			
D	8120	0.2	Ν		3	3	CCHE	Caliche			
D	8,768	0.5	Ν	PH03 C	4	4	CCHE	Caliche			
					-	Ī) @ 4 ft b			
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					MG	P USA			BH or PH Name:	Date:	
									PH 04	10/7/2021	
				5	08 West	Stevens S	Street		Site Name: Nash 39 Tank B		
				Car	isbad, Ne	w Mexico	88220		RP or Incident Number: NA		
								WSP Job Number: 31403236			
L				SIC / SOIL				Logged By: AC	Method: Trackhoe		
Lat/Lo	ong:	32.31903	3, -103.	94152	Field Scre				Hole Diameter:	Total Depth:	
Comm	onte:				Chloride,	PID	2.25"	4'			
Comm	ients.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litholo	ogy/Remarks	
D	2,600	0.4	Ν		1	0		Caliche			
D	2,600	0.6	Ν	PH04 A	2	2	CCHE	Caliche			
D	2600	0.4	Ν		3	3	CCHE	Caliche			
D	12,044	0.3	Ν	PH04 C	4	4	CCHE	Caliche			
					·	<u> </u>					
							TI	D @ 4ft b	gs		
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									_	
					WSP USA			BH or PH Name:	Date:	
								BG 01	10/6/2021	
				5	08 West Stevens 3 Isbad, New Mexico	Street		Site Name: Nash 39 Tank RP or Incident Number: N		
				Cal	isbau, New WexIC	5 00220		WSP Job Number: 314032		
					. SAMPLING LO	G		Logged By: AC	Method: Track	hoe
Lat/Lo	ona:	32.31903			Field Screening:	9		Hole Diameter:	Total Depth:	
		52.01000	.,		Chloride, PID			2.25"	4'	
Comn	nents:				-		-	•		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sampl e Depth Depth (ft bgs) (ft bgs)	USCS/Rock Symbol		Lithc	ology/Remarks	
D	10,244		Ν	BG 01		SM	Silty Sar			
D	8,768		Ν	BG01 A	2 _ 2	SM	Silty Sar			
D	11096		Ν	BG01 B	3 3	SM	Silty Sar			
D	13,108		Ν	BG01 C	4 _ 4	SM	Silty Sar	nd		
) @ 4ft b			

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									BH or PH Name:	Date:	
					WS	SP USA			BG 02	10/6/2021	
				5	08 West	Stevens S	Street		Site Name: Nash 39 Tank	Battery	
				Carl	sbad, Ne	Stevens Sew Mexico	88220		RP or Incident Number: N		
									WSP Job Number: 31403	T	
//				SIC / SOIL			G		Logged By AC	Method: T	
Lat/Lo	ng:	32.31903	3, -103.		Field Scre Chloride,				Hole Diameter: 2.25"	Total Dep 4'	th:
Comm	ients:				onionae,					7	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sampl e Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Remarks	
D	19,232		Ν	BG02	1	0	SM	Silty Sar	nd		
D	15,696		Ν	BG02 A	2	2	CCHE	Caliche			
D	17312		Ν	BG02 B	3	3	CCHE	Caliche			
D	17,312		Ν		4	4	CCHE	Caliche			
					-	-		@ 4 ft b			

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		WSP USA		BH or PH Name: Date:	
NS				BG 03 10/6/2021	
	E	08 West Stevens 8 Isbad, New Mexico	Street	Site Name: Nash 39 Tank Battery	
	Ca	ISDad, New Mexico	88220		
			~	WSP Job Number: 31403236.020.0129	
		SAMPLING LO	6	Logged By: AC Method: Trackhoe	
Lat/Long: 32.3190	03, -103.94152	Field Screening: Chloride, PID		Hole Diameter:Total Depth:2.25"4'	
Comments:					
Moisture Content Chloride (ppm) Vapor (ppm)	Staining Sample #	Sampl e Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D 7,528 D 10,244	N BG03 N BG03 A	$\begin{array}{c} - & 0 \\ 1 & - & 1 \\ 2 & - & 2 \end{array}$	SM SM		
D 8120	N BG03 B	3 3	SM		
		_			
D 14,312	N BG03 C	4 _ 4	SM	Silty Sand	
			T	TD @ 4 ft bgs	

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					WSP USA			BH or PH Name:	Date:			
					WSP USA			BG 04	10/6/2021			
				5	08 West Stevens Isbad, New Mexic	Street		Site Name: Nash 39 Tank				
				Car	Isbad, New Mexic	o 88220		RP or Incident Number: NAPP2118934484				
								WSP Job Number: 31403236.020.0129				
1 (1	Lat/Long: 32.31903, -103.94152 Field Screening:							Logged By: AC	Method: T			
Lat/Lo	ong:	32.31903,	, -103.9	4152	Field Screening: Chloride, PID			Hole Diameter: 2.25"	Total Dept 4'	ih:		
Comn	nents:				Chilonde, Fib			2.20				
0	0		f	#	Sampl	USCS/Rock Symbol						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	e Depth	/Ro Ibol		Lithol	ogy/Remarks			
1ois Con	olıt dq)	Vaş (pp	îtair	aml	Depth (ft bgs)	CS		LIIIOI	byy/Remarks			
20	0		0)	õ	(ft bgs)	ns						
					0							
D	10.244		NI	BC04	1 - 1	SM.	Cilturaand					
D	10,244		Ν	BG04	1 _ 1	SM	Silty sand					
D	6,004		Ν	BG04 A	2 2	SM	Silty sand					
_					_							
D	7528		Ν	BG04 B	3 3	CCHE	Caliche					
D	6,004		Ν	BG04 C	4 4	CCHE	Caliche					
	,											
								-				
							D @ 4 ft bg	5				
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									BH or PH Name:	Date	9:
					V	VSP USA			BG 05	10/6	5/2021
				5	08 Wes	st Stevens S	Street		Site Name: Nash 39 Tan	k Battery	
				Carl	sbad, N	st Stevens S New Mexico	88220		RP or Incident Number: N		184
									WSP Job Number: 31403	3236.020.0129	
		LITHO	LOG	IC / SOIL	SAMP	LING LO	G		Logged By: AC	Met	hod: Trackhoe
Lat/Lo	ong:	32.31903,				creening:			Hole Diameter:	Tota	al Depth:
					Chloride	e, PID			2.25"	4'	
Comm	nents:										
							~	1			
re t) de	L _	b	# 0	Samp		USCS/Rock Symbol				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	e	Depth	S/R mb		Litho	ology/Rema	rks
Moi Co	(p Chl	Va (p	Sta	Sam	(ft bgs	h (ft bgs)	Sy SC:				
	_			0)	(it by:		ň				
						0					
D	9,468		Ν	BG05	1	1	SM	Silty san	d		
	0,400		1.4	2000	1				~		
D	8,168		Ν	BG05 A	2	2	CCHE	Caliche			
	10011				~	-		Oalist			
D	10244		Ν	BG05 B	3	3	CCHE	Caliche			
D	19,232		Ν	BG05 C	4	- 4	CCHF	Caliche			
	. 5,202						CONC.	2 310110			
						-					
							TD	@ 4 ft bg	S		
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									PH or PH Nome		Date:	
N					W	ISP USA			BH or PH Name: BG 06			
							Chronet		BG 06 Site Name: Nash 39 Tanl	k Battony	10/6/2021	
				5 Car	lsbad. N	t Stevens S lew Mexico	5 88220		RP or Incident Number: N		3934484	
									WSP Job Number: 31403			
		LITHO	DLOG	IC / SOIL	SAMP	LING LOO	G		Logged By: AC		Method: Trackhoe	
Lat/Lo	ong:	32.31903,	-103.9	4152	Field Sc				Hole Diameter:		Total Depth:	
Comn	nents:				Chloride	e, PID			2.25"		4'	
Comm	nemo.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Samp e Depth (ft bgs	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Re	emarks	
D	12,044		N	BG 06	1	0 1	SM	Silty sar	ıd			
D	10,744		Ν	BG 06 A	2	_ 2	SM	Silty sar	d			
N/A	N/A		N/A		3	- 3	N/A	N/A	I			
N/A	N/A		N/A		4	_ 4	N/A	N/A	I			
	I		1	1			TD	@ 4 ft bg	js			

Received by OCD: 12/30/2021 4:48:04 PM

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Received by OCD: 12/30/2021 4:48:04 PM

eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1174-1

Laboratory Sample Delivery Group: 31403236.020.0129 Client Project/Site: Nash 39 Tank Battery

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 9/1/2021 3:30:04 PM

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 2/18/2022 8:58:44 AM

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Laboratory Job ID: 890-1174-1 SDG: 31403236.020.0129

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Job ID: 890-1174-1 SDG: 31403236.020.0129

Qualifiers

Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	_
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VO	N Construction of the second se	
Qualifier	Qualifier Description	6
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	8
F1	MS and/or MSD recovery exceeds control limits.	Q
U	Indicates the analyte was analyzed for but not detected.	3
Glossary		10
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	13
DER	Duplicate Error Ratio (normalized absolute difference)	
	Dilution Foster	

Glossary

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

Job ID: 890-1174-1 SDG: 31403236.020.0129

Job ID: 890-1174-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1174-1

Receipt

The samples were received on 8/26/2021 11:32 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 1.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7158 and analytical batch 880-7183 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7184 and analytical batch 880-7197 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

4

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

0.00401

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

Prepared

08/27/21 10:33

08/27/21 10:33

Job ID: 890-1174-1 SDG: 31403236.020.0129

Client Sample ID: SS01

Project/Site: Nash 39 Tank Battery

Date Collected: 08/25/21 14:26 Date Received: 08/26/21 11:32

Sample Depth: 0.5

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-1174-1 Matrix: Sol

Analyzed

08/28/21 08:50

08/28/21 08:50

08/28/21 08:50

08/28/21 08:50

08/28/21 08:50

08/28/21 08:50

08/28/21 08:50

Analyzed

08/28/21 08:50

08/28/21 08:50

Lab Sample ID: 890-1174-2

Matrix: Solid

174-1 : Solid	3
	4
	5
Dil Fac	
1	6
1	
1	7
1	
1	8
1	
1	9
Dil Fac	40
1	10
1	11
Dil Fac	12

_			
Method: 8015B	NM - Diesel R	ange Organics	(DRO) (GC)

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

<0.00401 U

%Recovery Qualifier

122

119

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/27/21 13:35	08/28/21 04:00	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	127		50.0		mg/Kg		08/27/21 13:35	08/28/21 04:00	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/27/21 13:35	08/28/21 04:00	1	
Total TPH	127		50.0		mg/Kg		08/27/21 13:35	08/28/21 04:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4.01.1			70 100				00/07/04 40 05	00/00/01 01 00		

Method: 300.0 - Anions, Ion Chron	natography - Soluble	•			
o-Terphenyl	112	70 - 130	08/27/21 13:35	08/28/21 04:00	1
1-Chlorooctane	98	70 - 130	08/27/21 13:35	08/28/21 04:00	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17200	248	mg/Kg			08/30/21 01:53	50

Client Sample ID: SS02 Date Collected: 08/25/21 14:30

Date Received: 08/26/21 11:32

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/27/21 10:33	08/28/21 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/27/21 10:33	08/28/21 09:16	1
1,4-Difluorobenzene (Surr)	117		70 - 130				08/27/21 10:33	08/28/21 09:16	1

Matrix: Solid

5

Client Sample Results

Job ID: 890-1174-1 SDG: 31403236.020.0129

Lab Sample ID: 890-1174-2

Lab Sample ID: 890-1174-3

08/28/21 09:42

08/27/21 10:33

Matrix: Solid

1

Client Sample ID: SS02

Project/Site: Nash 39 Tank Battery

Date Collected: 08/25/21 14:30 Date Received: 08/26/21 11:32

Sample Depth: 0.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 04:21	1
Diesel Range Organics (Over C10-C28)	112		49.9		mg/Kg		08/27/21 13:35	08/28/21 04:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 04:21	1
Total TPH	112		49.9		mg/Kg		08/27/21 13:35	08/28/21 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/27/21 13:35	08/28/21 04:21	1
o-Terphenyl	117		70 - 130				08/27/21 13:35	08/28/21 04:21	1

wethou. 300.0 - Anions, ion onion	alography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38800	250	mg/Kg			08/30/21 01:58	50

Client Sample ID: SS03

Date Collected: 08/25/21 14:35 Date Received: 08/26/21 11:32 Sample Depth: 0.5

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/27/21 10:33	08/28/21 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/27/21 10:33	08/28/21 09:42	1

70 - 130

Method: 8015B NM - Diesel Rar	nge Organics (DRO) (GC)		
Analyte	Result Qualifier	RL	MDL Unit

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 04:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 04:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 04:42	1
Total TPH	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/27/21 13:35	08/28/21 04:42	1
o-Terphenyl	108		70 - 130				08/27/21 13:35	08/28/21 04:42	1
 Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16400		249		mg/Kg			08/30/21 02:03	50

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

08/27/21 10:33

Dil Fac

1

1

1

1

1

1

Job ID: 890-1174-1 SDG: 31403236.020.0129

Client Sample ID: SS04

Project/Site: Nash 39 Tank Battery

Date Collected: 08/25/21 14:40 Date Received: 08/26/21 11:32

Sample Depth: 0.5

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Client: WSP USA Inc.

Lab Sample ID: 890-1174-4 Matrix: Solid

Analyzed

08/28/21 10:08

08/28/21 10:08

08/28/21 10:08

08/28/21 10:08

08/28/21 10:08

08/28/21 10:08

Lab Sample ID: 890-1174-5

Matrix: Solid

5

Total BTEX	<0.00401	U	0.00401	mg/Kg	08/27/21 10:33	08/28/21 10:08	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130		08/27/21 10:33	08/28/21 10:08	1
1,4-Difluorobenzene (Surr)	117		70 - 130		08/27/21 10:33	08/28/21 10:08	1
– Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg	08/27/21 13:35	08/28/21 05:03	1
(GRO)-C6-C10							
Diesel Range Organics (Over	1590		49.8	mg/Kg	08/27/21 13:35	08/28/21 05:03	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	08/27/21 13:35	08/28/21 05:03	1
Total TPH	1590		49.8	mg/Kg	08/27/21 13:35	08/28/21 05:03	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130		08/27/21 13:35	08/28/21 05:03	1
o-Terphenyl	98		70 - 130		08/27/21 13:35	08/28/21 05:03	1

	atography colubic						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41600	250	mg/Kg			08/30/21 02:09	50

Client Sample ID: SS05 Date Collected: 08/25/21 14:55 Date Received: 08/26/21 11:32

Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/27/21 10:33	08/28/21 10:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/27/21 10:33	08/28/21 10:34	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/27/21 10:33	08/28/21 10:34	1

Client Sample Results

Job ID: 890-1174-1 SDG: 31403236.020.0129

Lab Sample ID: 890-1174-5

Client Sample ID: SS05

Project/Site: Nash 39 Tank Battery

Date Collected: 08/25/21 14:55 Date Received: 08/26/21 11:32

Sample Depth: 0.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 05:24	1
Diesel Range Organics (Over C10-C28)	574		49.9		mg/Kg		08/27/21 13:35	08/28/21 05:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/27/21 13:35	08/28/21 05:24	1
Total TPH	574		49.9		mg/Kg		08/27/21 13:35	08/28/21 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/27/21 13:35	08/28/21 05:24	1
o-Terphenyl	116		70 - 130				08/27/21 13:35	08/28/21 05:24	1

Analyte	Result C	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	39700	251		mg/Kg			08/30/21 02:14	50	
Client Sample ID: SS06						Lab Sa	mple ID: 890-	1174-6	ļ

Client Sample ID: SS06

Date Collected: 08/25/21 15:10 Date Received: 08/26/21 11:32 Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/27/21 10:33	08/28/21 11:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/27/21 10:33	08/28/21 11:00	1

4-Diomonuolobenzene (Sun)	120		70 - 130				06/21/21 10.33	06/26/21 11.00	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/27/21 10:33	08/28/21 11:00	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/27/21 13:35	08/28/21 05:45	1
Diesel Range Organics (Over C10-C28)	784		50.0		mg/Kg		08/27/21 13:35	08/28/21 05:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/27/21 13:35	08/28/21 05:45	1
Total TPH	784		50.0		mg/Kg		08/27/21 13:35	08/28/21 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				08/27/21 13:35	08/28/21 05:45	1
o-Terphenyl	117		70 - 130				08/27/21 13:35	08/28/21 05:45	1
	matagraphy	Soluble							
Method: 300.0 - Anions, Ion Chro	- matography	Soluble				_			

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chloride	55400	248	mg/Kg		08/31/21 19:04	50

Eurofins Xenco, Carlsbad

Matrix: Solid

Matrix: Solid

5

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-5513-A-1-A MS	Matrix Spike	122	126		
880-5513-A-1-B MSD	Matrix Spike Duplicate	94	98		
890-1174-1	SS01	122	119		- 22
890-1174-2	SS02	120	117		
890-1174-3	SS03	130	119		
890-1174-4	SS04	124	117		
890-1174-5	SS05	107	101		
890-1174-6	SS06	120	113		
LCS 880-7158/1-A	Lab Control Sample	107	118		
LCSD 880-7158/2-A	Lab Control Sample Dup	118	121		
MB 880-7146/5-A	Method Blank	71	103		
MB 880-7158/5-A	Method Blank	70	103		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluoroben	izene (Surr)				

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

Matrix: Solid

				Percent S
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5484-A-5-D MS	Matrix Spike	92	99	
880-5484-A-5-E MSD	Matrix Spike Duplicate	92	99	
890-1174-1	SS01	98	112	
890-1174-2	SS02	102	117	
890-1174-3	SS03	94	108	
890-1174-4	SS04	94	98	
890-1174-5	SS05	104	116	
890-1174-6	SS06	109	117	
LCS 880-7193/2-A	Lab Control Sample	95	102	
LCSD 880-7193/3-A	Lab Control Sample Dup	91	98	
MB 880-7193/1-A	Method Blank	98	115	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1174-1 SDG: 31403236.020.0129

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Method: 8021B - Volatile Organic Compounds (GC)

									Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 7183										Prep Bat	ch: 7146
-	МВ	MB									
Analyte	Result	Qualifier	RL		MDL	Unit	D	F	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		1	mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
Toluene	<0.00200	U	0.00200			mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
Ethylbenzene	<0.00200	U	0.00200		I	mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
o-Xylene	<0.00200	U	0.00200			mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
Xylenes, Total	<0.00400	U	0.00400		1	mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
Total BTEX	<0.00400	U	0.00400			mg/Kg		08/2	26/21 15:44	08/27/21 18:33	1
	МВ	МВ									
Surrogate	%Recovery	Qualifier	Limits					F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130						26/21 15:44	08/27/21 18:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130						26/21 15:44	08/27/21 18:33	1
-											
Lab Sample ID: MB 880-7158/5-A									Client Sa	mple ID: Metho	
Matrix: Solid										Prep Type:	
Analysis Batch: 7183										Prep Bat	ch: 7158
		MB									
Analyte		Qualifier	RL		MDL		<u>D</u>		Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200			mg/Kg			27/21 10:33	08/28/21 07:57	1
Toluene	<0.00200		0.00200		I	mg/Kg			27/21 10:33	08/28/21 07:57	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg		08/2	27/21 10:33	08/28/21 07:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		I	mg/Kg		08/2	27/21 10:33	08/28/21 07:57	1
o-Xylene	<0.00200	U	0.00200		I	mg/Kg		08/2	27/21 10:33	08/28/21 07:57	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kg		08/2	27/21 10:33	08/28/21 07:57	1
Total BTEX	<0.00400	U	0.00400		I	mg/Kg		08/2	27/21 10:33	08/28/21 07:57	1
	MB	МВ									
Surrogate	%Recovery	Qualifier	Limits					F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130					08/2	27/21 10:33	08/28/21 07:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130					08/2	27/21 10:33	08/28/21 07:57	1
Lab Sample ID: LCS 880-7158/1-A								lion	t Sampla I	ID: Lab Control	Sampla
Matrix: Solid								men	Complet	Prep Type:	
										Prep Bat	
Analysis Batch: 7183			Spike	1.09	LCS						CII. 7 150
Analyte			Added	Result		fier Unit		D	%Rec	%Rec. Limits	
Benzene			0.100	0.1009	Quaili	mg/K	a		101	70 - 130	
Toluene			0.100	0.09915		mg/K			99	70 - 130 70 - 130	
						-	-				
Ethylbenzene			0.100	0.1007		mg/K			101	70 - 130	
m-Xylene & p-Xylene			0.200	0.2017		mg/K			101	70 - 130	
o-Xylene			0.100	0.09923		mg/K	y		99	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

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Job ID: 890-1174-1 SDG: 31403236.020.0129

QC Sample Results

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Job ID: 890-1174-1 SDG: 31403236.020.0129

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

Lab Sample ID: LCSD 880-7158/2-A Matrix: Solid Analysis Batch: 7183				Clier	nt Sam	ple ID:		I Sample ype: Tot p Batch:	tal/NA
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.09516		mg/Kg		95	70 - 130	4	35
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2081		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130	4	35
	LCSD LCSD								

	LUUD	LUUD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: 880-5513-A-1-A MS Matrix: Solid Analysis Batch: 7183

Analysis Batch. 7 105									Ртер Ба	CII. / 150
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.101	0.05222	F1	mg/Kg		52	70 - 130	
Toluene	<0.00200	U F1	0.101	0.05001	F1	mg/Kg		50	70 - 130	
Ethylbenzene	<0.00200	U F1	0.101	0.04375	F1	mg/Kg		43	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.08514	F1	mg/Kg		42	70 - 130	
o-Xylene	<0.00200	U F1	0.101	0.04188	F1	mg/Kg		42	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

Lab Sample ID: 880-5513-A-1-B MSD Matrix: Solid Analysis Batch: 7183

Analysis Daton. 1100									110	p Duton	1100
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.101	0.06023	F1	mg/Kg		60	70 - 130	14	35
Toluene	<0.00200	U F1	0.101	0.05872	F1	mg/Kg		58	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.101	0.05223	F1	mg/Kg		52	70 - 130	18	35
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.1003	F1	mg/Kg		50	70 - 130	16	35
o-Xylene	<0.00200	U F1	0.101	0.04742	F1	mg/Kg		47	70 - 130	12	35
	MSD	MSD									

	10130 1	130	
Surrogate	%Recovery G	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

		-	
	Prep	Batch:	7158
n			000

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QC Sample Results

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

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

	Α								Client Sa	mple ID: Met	hod	Blank
Lab Sample ID: MB 880-7193/1-/ Matrix: Solid										Prep Type		
Analysis Batch: 7166										Prep B		
· ····· , ··· · ···	м	B MB										
Analyte		It Qualifier	RL		MDL	Unit	D)	Prepared	Analyzed		Dil Fac
Gasoline Range Organics		0 U	50.0			mg/Kg			27/21 13:35	08/27/21 22:0		1
(GRO)-C6-C10											-	-
Diesel Range Organics (Over C10-C28)	<50.	0 U	50.0		I	mg/Kg		08/	27/21 13:35	08/27/21 22:0	3	1
Oll Range Organics (Over C28-C36)	<50	0 U	50.0			mg/Kg		08/	27/21 13:35	08/27/21 22:0	3	1
Total TPH		0 U	50.0			mg/Kg			27/21 13:35	08/27/21 22:0		
		00	00.0			ilig/ilig		00/	21721 10.00	00/21/21 22:0	0	
	М	B MB										
Surrogate	%Recover	y Qualifier	Limits						Prepared	Analyzed		Dil Fac
1-Chlorooctane	ç	8	70 - 130					08/	27/21 13:35	08/27/21 22:0	3	1
o-Terphenyl	11	5	70 - 130					08/	27/21 13:35	08/27/21 22:0	3	1
								0	4 0 1 1	D. I. als Cant		
Lab Sample ID: LCS 880-7193/2	- A							Clien	it Sample I	D: Lab Cont		
Matrix: Solid										Prep Type		
Analysis Batch: 7166			o ''							Prep B	atch	7193
			Spike	LCS				_	~-	%Rec.		
Analyte			Added	Result	Qualif			<u>D</u>	%Rec	Limits		
Gasoline Range Organics			1000	881.0		mg	g/Kg		88	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over			1000	1015			Ka		102	70 - 130		
C10-C28)			1000	1015		ιιί	g/Kg		102	70 - 130		
010 020)												
	LCS LC											
Surrogate	%Recovery Q	ıalifier	l incide									
			Limits									
1-Chlorooctane	95		70 - 130									
1-Chlorooctane o-Terphenyl												
o-Terphenyl	95 102		70 - 130				Clien	of Sar	nnie ID: La	ah Control S	amol	
o-Terphenyl Lab Sample ID: LCSD 880-7193	95 102		70 - 130				Clier	nt Sar	nple ID: La	ab Control Si		
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-7193/ Matrix: Solid	95 102		70 - 130				Clier	nt Sar	nple ID: La	Prep Type	e: To	tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-7193	95 102		70 - 130 70 - 130	1050			Clier	nt Sar	nple ID: La	Prep Type Prep B	e: To	tal/NA : 7193
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166	95 102		70 - 130 70 - 130 Spike	LCSD Booult					-	Prep Type Prep B %Rec.	e: Tot atch	tal/NA 7193 RPD
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte	95 102		70 - 130 70 - 130 Spike Added	Result		fier Un	nit	nt Sar	%Rec	Prep Type Prep B %Rec. Limits	e: To atch	tal/NA 7193 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-7193. Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics	95 102		70 - 130 70 - 130 Spike			fier Un			-	Prep Type Prep B %Rec.	e: Tot atch	tal/NA 7193 RPD
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10	95 102		70 - 130 70 - 130 Spike Added 1000	Result 873.2		fier Un mç	nit g/Kg			Prep Type Prep B %Rec. Limits 70 - 130	e: Tot atch RPD 1	tal/NA : 7193 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	95 102		70 - 130 70 - 130 Spike Added	Result		fier Un mç	nit		%Rec	Prep Type Prep B %Rec. Limits	e: To atch	tal/NA 7193 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10	95 102 / 3-A		70 - 130 70 - 130 Spike Added 1000	Result 873.2		fier Un mç	nit g/Kg			Prep Type Prep B %Rec. Limits 70 - 130	e: Tot atch RPD 1	tal/NA : 7193 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	95 102 /3-A 		70 - 130 70 - 130 Spike Added 1000	Result 873.2		fier Un mç	nit g/Kg			Prep Type Prep B %Rec. Limits 70 - 130	e: Tot atch RPD 1	tal/NA : 7193 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	95 102 /3-A /CSD LC %Recovery Qu		70 - 130 70 - 130 Spike Added 1000 1000	Result 873.2		fier Un mç	nit g/Kg			Prep Type Prep B %Rec. Limits 70 - 130	e: Tot atch RPD 1	tal/NA : 7193 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	95 102 /3-A /CSD LC %Recovery Qi 91		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 873.2		fier Un mç	nit g/Kg			Prep Type Prep B %Rec. Limits 70 - 130	e: Tot atch RPD 1	tal/NA : 7193 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	95 102 /3-A /CSD LC %Recovery Qu		70 - 130 70 - 130 Spike Added 1000 1000	Result 873.2		fier Un mç	nit g/Kg			Prep Type Prep B %Rec. Limits 70 - 130	e: Tot atch RPD 1	tal/NA : 7193 RPD Limit 20
o-Terphenyl Lab Sample ID: LCSD 880-7193/ Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 873.2		fier Un mç	nit g/Kg		<mark>.%Rec</mark> 87 100	Prep Type Prep B %Rec. Limits 70 - 130 70 - 130	e: Tot atch RPD 1 2	tal/NA : 7193 RPD Limit 20 20
o-Terphenyl Lab Sample ID: LCSD 880-7193/ Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 873.2		fier Un mç	nit g/Kg		<mark>.%Rec</mark> 87 100	Prep Type Prep B %Rec. Limits 70 - 130 70 - 130	e: Tot atch RPD 1 2	tal/NA : 7193 RPD Limit 20 20 Spike
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-5484-A-5-D Matrix: Solid	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 873.2		fier Un mç	nit g/Kg		<mark>.%Rec</mark> 87 100	Prep Type Prep B %Rec. Limits 1 70 - 130 70 - 130 70 - 130	e: Tot atch 1 2 atrix e: Tot	tal/NA : 7193 RPD Limit 20 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-7193 Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-5484-A-5-D	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A	SD ualifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 873.2 997.7	Qualif	fier Un mç	nit g/Kg		<mark>.%Rec</mark> 87 100	Prep Type Prep B %Rec. Limits 1 70 - 130 70 - 130 70 - 130	e: Tot atch 1 2 atrix e: Tot	tal/NA : 7193 RPD Limit 20 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-7193/ Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-5484-A-5-D Matrix: Solid Analysis Batch: 7166	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A	SD valifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 873.2 997.7 MS	Qualif	fier Un mչ	iit g∕Kg g∕Kg	D	%Rec 87 100 Client S	Prep Type Prep B %Rec. Limits 1 70 - 130 70 - 130 70 - 130 70 - 130 %Rec.	e: Tot atch 1 2 atrix e: Tot	tal/NA : 7193 RPD Limit 20 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-7193/ Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-5484-A-5-D Matrix: Solid Analysis Batch: 7166 Analyte	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A	SD valifier	70 - 130 70 - 130 Spike Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 873.2 997.7 MS Result	Qualif	fier Un mg	iit g/Kg g/Kg		%Rec 87 100 Client S	Prep Type Prep B %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190	e: Tot atch 1 2 atrix e: Tot	tal/NA : 7193 RPD Limit 20 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-7193/ Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-5484-A-5-D Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A	SD valifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 873.2 997.7 MS	Qualif	fier Un mg	iit g∕Kg g∕Kg	D	%Rec 87 100 Client S	Prep Type Prep B %Rec. Limits 1 70 - 130 70 - 130 70 - 130 70 - 130 %Rec.	e: Tot atch 1 2 atrix e: Tot	tal/NA : 7193 RPD Limit 20 20 20 Spike tal/NA
o-Terphenyl Lab Sample ID: LCSD 880-7193/ Matrix: Solid Analysis Batch: 7166 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-5484-A-5-D Matrix: Solid Analysis Batch: 7166 Analyte	95 102 /3-A /3-A /3-A /3-A /3-A /3-A /3-A /3-A	SD valifier	70 - 130 70 - 130 Spike Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 873.2 997.7 MS Result	Qualif	fier Un	iit g/Kg g/Kg	D	%Rec 87 100 Client S	Prep Type Prep B %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190	e: Tot atch 1 2 atrix e: Tot	tal/NA : 7193 RPD Limit 20 20 20 Spike tal/NA

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Job ID: 890-1174-1

SDG: 31403236.020.0129

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

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Job ID: 890-1174-1 SDG: 31403236.020.0129

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

Analysis Batch: 7166 Ms Ms Ms Ms Surrogate ''''''''''''''''''''''''''''''''''''	Lab Sample ID: 880-5484-A-	5-D MS											Client	Sample ID	: Matrix	Spike
MS MS Surrogate VRecovery Qualifier Limits 70 - 130 70 - 130 2-Terphenyl 99 70 - 130 Lab Sample ID: 880-5484-A-S-E MSD Client Sample ID: Matrix: Spike Duplic Matrix: Solid Prep Bateh: 71 Analysis Batch: 7166 Sample Sample Natyle Result Qualifier Added Result Qualifier Added QRO: Co-C10 989 B13.7 Diseal Range Organics (Over - 49.9 U 998 Signop Co-C10 998 909.9 mg/Kg Diseal Range Organics (Over - 49.9 U 998 909.9 mg/Kg Surrogate VRecovery Qualifier Limits 1/-Chirocotane 32 70 - 130 210-C28) MSD MSD Surrogate VRecovery Qualifier Limits 1/-Chirocotane 32 70 - 130 20-Taphenyl 39 70 - 130 Prep Type: Solut Analyte Client Sample ID: Method Bia Analyte Result Qualifier Rut Analyte Result Qualifier NB Analyte Solut Solut Chirotase < 500 U Solutase Solutifier<	Matrix: Solid													Prep ⁻	Гуре: То	tal/NA
Surrogate %Recovery Qualifier Limits 7-C/horooctane 92 70.130 2-Terphenyi 99 70.130 Lab Sample ID: 880-5484-A-5-E MSD Client Sample ID: Matrix Spike Duplic. Prep Type: Total/ Analysis Batch: 7166 Analyte Result Qualifier Analyte Result Qualifier Analyte Result Qualifier Added MSD MSD Surrogate %Recovery Qualifier %Recovery Qualifier Limits 1-Chiorooctane 92 70.130 Surrogate %Recovery Qualifier %Recovery Qualifier Limits 1-Chiorooctane 92 70.130 Surrogate %Recovery Qualifier %Recovery Qualifier Limits 1-Chiorooctane 92 70.130 >-Frephenyi 99 70.130 Surrogate %Recovery Qualifier 1-Chiorootane 92 70.130 -Stephenyi 99 70.130 -Stephenyi 99 70.130 -Stephenyi 99 70.130 -Stephenyi 99 70.130 -Stephenyi 90 00	Analysis Batch: 7166													Pre	p Batch	: 7193
I-Chlorocotane 92 70.130 p-Terphenyl 99 70.130 Lab Sample ID: 880-5484-A-5-E MSD Client Sample ID: Matrix Spike Duplic. Prep Type: Total/ Analysis Batch: 7166 Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit 0 %Rec. F Sample Organics <49.9 998 813.7 mg/Kg 82 70.130 3 GRO/-OC-10 Sample Organics (Over <49.9 998 909.9 mg/Kg 91 70.130 2 Surrogate %Recovery Qualifier Limits 70.130 70.130 2 Surrogate %Recovery Qualifier Limits 70.130 70.130 2 Surrogate %Recovery Qualifier Limits 70.130 Prep Type: Solut Analyte Result Qualifier Limits 70.130 Prep Type: Solut Analyte Result Qualifier KL MD Unit 		MS	мs													
2-Tarphenyl 99 70.130 Lab Sample ID: 880-5484-A-5-E MSD Matrix: Solid Client Sample ID: Matrix Spike Duplic Prop Batch: 7166 Analyte Sample Sample Sample Sample Sample Sample Spike MSD MSD MSD MSD 813.7 Unit D %Rec. FR Sample Organics (GRO)-C6-C10 Result Qualifier Added Result Qualifier Unit D %Rec Linkis RPD Li Samole Range Organics (GRO)-C6-C10 MSD MSD MSD MSD MSD RPD Li Surrogate %Recovary 0 Qualifier Limits 70.130 70.130 2 Client Sample ID: MSD RPD Li Surrogate %Recovary 0 Qualifier Limits 70.130 RPD Li RPD Li Li RPD Li Li Li RPD Li	Surrogate	%Recovery	Qua	lifier	Limits											
Lab Sample ID: 880-5484-A-5-E MSD Matrix: Solid Analysis Batch: 7166 Maryte Sample Sample Sample Sample Spike Analyte Result Qualifier Added GRO-C6-C10 Divest Range Organics (Over 49.9 U 998 909.9 mg/Kg 91 70.130 2 C10-C28) MSD MSD Surrogate Science 2 2 2 70.130 1 2 C10-C28) MSD MSD Surrogate Science 2 2 2 70.130 2 C10-C28) C10-C28) C10-C28) C10-C28) C10-C28) C10-C28) C10-C28 C10	1-Chlorooctane	92			70 - 130	-										
Matrix: Solid Analysis Batch: 7166 Sample Sample Sample Spike MSD MSD Vietnot Prep Batch: 71 Analysis Batch: 7166 Sample Crganics (Over 49.9 U 998 909.9 mg/Kg 91 70.130 2 C10-C20) MSD MSD Surrogate 70.130 2 C10-C20 Surrogate 70.130 2 Surrogate 70.130 2 C10-C20 Surrogate 70.130 2 Surrogate 70.130 2 Su	o-Terphenyl	99			70 - 130											
Matrix: Solid Analysis Batch: 7166 Sample Sample Sample Spike MSD MSD Vietnot Prep Batch: 71 Analysis Batch: 7166 Sample Crganics (Over 49.9 U 998 909.9 mg/Kg 91 70.130 2 C10-C20) MSD MSD Surrogate 70.130 2 C10-C20 Surrogate 70.130 2 Surrogate 70.130 2 C10-C20 Surrogate 70.130 2 Surrogate 70.130 2 Su	Lab Sample ID: 880-5484-A-	5-E MSD									Clien	t Sa	ample IC): Matrix S	pike Duj	plicate
Analysis Batch: 7166 Prep Batch: 71 Analysis Batch: 7166 Sample Sample Sample Spike MSD MSD %Rec. February February February Spike Result Qualifier Unit D %Rec. February	Matrix: Solid												· ·			
Sample AnalyteSample ResultSpike QualifierMSDMSD%Rec. BillFAnalyteResult QualifierQualifierAddedResult QualifierQualifierUnit mg/KgD%Rec.FSacoline Range Organics (GRO)-C6-C10<49.9	Analysis Batch: 7166															
GRO/C6-C10 GRO/C6-C10 998 813.7 mg/Kg 82 70 - 130 3 GRO/C6-C10 Disel Range Organics (Over <49.9	-	Sample	Sam	ple	Spike		MSD	MSD)							RPI
GRO)-G6-C10 MSD MSD 998 909.9 mg/Kg 91 70.130 2 C10-C28) MSD MSD Limits 70.130 2 Surrogate %Recovery Qualifier Limits 70.130 1-Chlorooctane 92 70.130 70.130 p-Terphenyl 99 70.130 70.130 lethod: 300.0 - Anions, Ion Chromatography Client Sample ID: MB 880-7184/1-A Client Sample ID: Method Bla Matrix: Solid Result Qualifier RL MDL Unit D Prep Type: Solu Analyte MB MB MB Matrix: Solid D Prepared Analyzed Dill Lab Sample ID: LCS 880-7184/2-A Kesuit Qualifier RL Client Sample ID: Lab Control Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample ID: Prep Type: Solu Analysis Batc	Analyte	Result	Qua	lifier	Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorocotane 92 70.130 o-Terphenyl 99 70.130 bethod: 300.0 - Anions, Ion Chromatography Ethod: 300.0 - Anions, Ion Chromatography Lab Sample ID: MB 880-7184/1-A Client Sample ID: Method Bla Matrix: Solid Prep Type: Solu Analyte Result Qualifier Chloride <5.00	Gasoline Range Organics (GRO)-C6-C10	<49.9	U		998		813.7			mg/Kg		_	82	70 - 130	3	2
Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70.130 o-Terphenyl 99 70.130 lethod: 300.0 - Anions, lon Chromatography Ethod: Sample ID: MB 880-7184/1-A Client Sample ID: Method Bla Matrix: Solid Prep Type: Solu Prep Type: Solu Analyte Result Qualifier RL Chioride <5.00	Diesel Range Organics (Over C10-C28)	<49.9	U		998		909.9			mg/Kg			91	70 - 130	2	2
1-Chlorooctane 92 70.130 p-Terphenyl 99 70.130 De-Terphenyl 99 70.130 Lab Sample ID: MB 880-7184/1-A Client Sample ID: Method Bla Matrix: Solid Prep Type: Solu Analyte Result Qualifier RL Chloride <5.00		MSD	MSE)												
p-Terphenyl 99 70.130 lethod: 300.0 - Anions, Ion Chromatography Client Sample ID: MB 880-7184/1-A Lab Sample ID: MB 880-7184/1-A Client Sample ID: Method Bla Matrix: Solid Prep Type: Solu Analyze MB Analyze Result Qualifier RL <	Surrogate	%Recovery	Qua	lifier	Limits											
lethod: 300.0 - Anions, Ion Chromatography Lab Sample ID: MB 880-7184/1-A Matrix: Solid Analysis Batch: 7197 MB MB Analyte Result Qualifier Re	1-Chlorooctane	92			70 - 130	-										
Lab Sample ID: MB 880-7184/1-A Matrix: Solid Analysis Batch: 7197 MB MB Analyte Result Qualifier RL MDL Unit Driver MDL Unit Mg/Kg D Prepared Analyzed Dil Solid Chloride Sample ID: LCS 880-7184/2-A Matrix: Solid Analyte Solid Analyte Solid Analyte Chloride Sample ID: LCS 880-7184/2-A Matrix: Solid Analyte Solid Analyte Chloride Sample ID: LCS 880-7184/3-A Matrix: Solid Analyte Solid Chloride Sample ID: LCSD 880-7184/3-A Matrix: Solid Analyte Solid Chloride Sample ID: LCSD 880-7184/3-A Matrix: Solid Analysis Batch: 7197 Spike LCSD LCSD %Rec. F	o-Terphenyl	99			70 - 130											
MB MB MB Qualifier RL MDL Unit D Prepared Analyzed Dil Chloride <5.00 U 5.00 U 5.00 mg/Kg D Prepared Analyzed Dil Lab Sample ID: LCS 880-7184/2-A Katrix: Solid Client Sample ID: Lab Control Sample ID: LCSD 880-7184/3-A Spike LCS LCS LCS Matrix: Solid %Rec. Limits — — — — — — — — — — — — — — — — …	Matrix: Solid	4/1-A											Client S			
AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDilChloride<5.00U5.005.00mg/KgDPreparedAnalyzedDilLab Sample ID: LCS 880-7184/2-A Matrix: Solid Analysis Batch: 7197Client Sample ID: Lab Control Sample ID: LCSD 880-7184/3-AMatrix: Solid Analysis Batch: 7197SpikeLCSLCSWRec.Analyte Chloride250267.1mg/KgDWRec.Lab Sample ID: LCSD 880-7184/3-A Matrix: Solid Analysis Batch: 7197SpikeLCSDLCSDWRec.Frep Type: SolutionSpikeLCSD LCSD%Rec.Frep Type: SolutionSpikeLCSDWRec.Frep Type: Solution	Analysis Batch: 7197		MR	MB												
Chloride <5.00 U 5.00 mg/Kg 08/29/21 23:36 Lab Sample ID: LCS 880-7184/2-A Client Sample ID: Lab Control Sample ID: Lab Sample ID: LCSD 880-7184/3-A Spike LCS LCS %Rec. Limits Lab Sample ID: LCSD 880-7184/3-A Added Result Qualifier Unit D %Rec. Limits Lab Sample ID: LCSD 880-7184/3-A Z50 Z67.1 Client Sample ID: Lab Control Sample D Prep Type: Solut Matrix: Solid Spike LCSD LCSD %Rec. Frep Type: Solut Analysis Batch: 7197 Spike LCSD LCSD %Rec. Frep Type: Solut	Analyte	R				RI		мрі	Unit		р	Р	renared	Analy:	zed	Dil Fa
Matrix: Solid Prep Type: Solut Analysis Batch: 7197 Spike LCS LCS VRec. Analyte Added Result Qualifier Unit D %Rec. Chloride 250 267.1 267.1 mg/Kg D %Rec. Lab Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample D Matrix: Solid Prep Type: Solut Analysis Batch: 7197 Spike LCSD %Rec.	Chloride												opulou			Dirta
Matrix: Solid Prep Type: Solut Analysis Batch: 7197 Spike LCS LCS VRec. Analyte Added Result Qualifier Unit D %Rec. Chloride 250 267.1 267.1 mg/Kg D %Rec. Lab Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample D Matrix: Solid Prep Type: Solut Analysis Batch: 7197 Spike LCSD %Rec.	I ah Sample ID: I CS 880-718	R4/2-A									Cli	ont	Sample	D' Lah C	ontrol S	ample
Spike LCS LCS LCS Macroscope Analyte Added Result Qualifier Unit D %Rec. Analyte 250 267.1 267.1 Unit D %Rec. Lab Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample D Prep Type: Solu Matrix: Solid Prep Type: Solu Prep Type: Solu Analysis Batch: 7197 Spike LCSD LCSD %Rec.													oumpic			
Spike LCS LCS LCS Macc. Analyte Added Result Qualifier Unit D %Rec. Chloride 250 267.1 267.1 mg/Kg 107 90 - 110 Lab Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample D Matrix: Solid Prep Type: Solut Analysis Batch: 7197 Spike LCSD LCSD %Rec.															.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.001
Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 267.1 267.1 mg/Kg D %Rec Limits Lab Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample D Matrix: Solid Prep Type: Solut Analysis Batch: 7197 Spike LCSD LCSD %Rec. F	analysis Batolit (19)				Spike		LCS	LCS						%Rec.		
Chloride 250 267.1 mg/Kg 107 90 - 110 Lab Sample ID: LCSD 880-7184/3-A Client Sample ID: Lab Control Sample D Matrix: Solid Prep Type: Solu Analysis Batch: 7197 Spike LCSD LCSD %Rec.	Analyta									Unit		D	%Rec			
Matrix: Solid Prep Type: Solu Analysis Batch: 7197 Spike LCSD LCSD %Rec. F	Andivie			·								-				
Matrix: Solid Prep Type: Solu Analysis Batch: 7197 Spike LCSD LCSD %Rec. F	Chloride															
Analysis Batch: 7197 Spike LCSD LCSD %Rec. F	Chloride	194/2 4								C 1	ont S			l oh Contro	L Comm	le Dru
Spike LCSD LCSD %Rec. F	Chloride Lab Sample ID: LCSD 880-7	184/3-A								Cli	ient S	am	ple ID: I			
· ·	Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid	184/3-A								Cli	ient S	am	ple ID:			
	Chloride Lab Sample ID: LCSD 880-7	184/3 -A			Spike		LCSD	LCS	D	Cli	ient S	am	ple ID:	Prep		

Client Sample ID: Matrix Spike Prep Type: Soluble

90 - 110

0

20

106

Analysis Batch: 7197										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	743	F1	498	1310	F1	mg/Kg		114	90 - 110	

266.1

mg/Kg

250

Released to Imaging: 2/18/2022 8:58:44 AM

Lab Sample ID: 890-1169-A-1-E MS

Chloride

Matrix: Solid

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Job ID: 890-1174-1 SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1169-A-1-F M	SD						Client S	ample II	D: Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 7197											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	743	F1	498	1309	F1	mg/Kg		114	90 - 110	0	20
Lab Sample ID: MB 880-7258/1-A								Client S	Sample ID:	Method	Blank
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 7352											
		MB MB									
Analyte	R	esult Qualifier		RL	MDL Unit		DI	Prepared	Analyz	ed	Dil Fac
Chloride	~	<5.00 U		5.00	mg/K	g			08/31/21	18:48	1
Lab Sample ID: LCS 880-7258/2-A							Clien	t Sample	e ID: Lab Co	ontrol Sa	ample
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 7352											
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
			050			mg/Kg		107	90 - 110		
Chloride			250	266.8		ing/itg		107	50 - 110		
Chloride	A		250	200.0		0 0	ient Sar		Lab Contro	l Sampl	e Dup
	A		250	200.0		0 0	ient Sar		Lab Contro	l Sampl Type: So	
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid	A		250	200.0		0 0	ient Sar		Lab Contro		
Lab Sample ID: LCSD 880-7258/3-	A		250 Spike		LCSD	0 0	ient Sar		Lab Contro		
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid	A			LCSD		0 0	ient Sar D		Lab Contro Prep		oluble
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352	A		Spike	LCSD	LCSD Qualifier	CI		nple ID:	Lab Contro Prep %Rec.	Type: S	oluble RPD
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte	A		Spike Added	LCSD Result	LCSD Qualifier	CI		mple ID: %Rec	Lab Contro Prep %Rec. Limits	Type: So	RPD Limit 20
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride	A		Spike Added	LCSD Result	LCSD Qualifier	CI		mple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau	Type: So	RPD Limit 20 SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid	A		Spike Added	LCSD Result	LCSD Qualifier	CI		mple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau	Type: So RPD 1 mple ID:	RPD Limit 20 SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride		Sample	Spike Added	LCSD Result	LCSD Qualifier	CI		mple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau	Type: So RPD 1 mple ID:	RPD Limit 20 SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid	Sample	Sample Qualifier	Spike Added 250	LCSD Result 265.2 MS	LCSD Qualifier	CI		mple ID: %Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client San Prep	Type: So RPD 1 mple ID:	RPD Limit 20 SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analysis Batch: 7352	Sample	•	Spike Added 250 Spike	LCSD Result 265.2 MS	LCSD Qualifier MS Qualifier	CI - Unit mg/Kg	<u> </u>	%Rec 106	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec.	Type: So RPD 1 mple ID:	RPD Limit 20 SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analysis Batch: 7352 Analyte	Sample Result	•	Spike Added 250 Spike Added	LCSD Result 265.2 MS Result	LCSD Qualifier MS Qualifier	CI Unit mg/Kg	<u> </u>	%Rec%Rec%Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits	Type: So <u>RPD</u> 1 mple ID: Type: So	oluble RPD Limit 20 SS06 oluble
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analysis Batch: 7352 Analyte Chloride	Sample Result	•	Spike Added 250 Spike Added	LCSD Result 265.2 MS Result	LCSD Qualifier MS Qualifier	CI Unit mg/Kg	<u> </u>	%Rec%Rec%Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110 Client Sau	Type: So <u>RPD</u> 1 mple ID: Type: So mple ID:	oluble RPD Limit 20 SS06 oluble SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analysis Batch: 7352 Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MSD Matrix: Solid Matrix: Solid	Sample Result	•	Spike Added 250 Spike Added	LCSD Result 265.2 MS Result	LCSD Qualifier MS Qualifier	CI Unit mg/Kg	<u> </u>	%Rec%Rec%Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110 Client Sau	Type: So <u>RPD</u> 1 mple ID: Type: So	oluble RPD Limit 20 SS06 oluble SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analysis Batch: 7352 Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analyte Chloride Lab Sample ID: 890-1174-6 MSD	Sample Result 55400	•	Spike Added 250 Spike Added	LCSD Result 265.2 MS Result 69220	LCSD Qualifier MS Qualifier	CI Unit mg/Kg	<u> </u>	%Rec%Rec%Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110 Client Sau	Type: So <u>RPD</u> 1 mple ID: Type: So mple ID:	oluble RPD Limit 20 SS06 oluble SS06
Lab Sample ID: LCSD 880-7258/3- Matrix: Solid Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MS Matrix: Solid Analysis Batch: 7352 Analysis Batch: 7352 Analyte Chloride Lab Sample ID: 890-1174-6 MSD Matrix: Solid Matrix: Solid	Sample Result 55400 Sample	Qualifier	Spike Added 250 Spike Added 12400	LCSD Result 265.2 MS Result 69220	LCSD Qualifier MS Qualifier 4	CI Unit mg/Kg	<u> </u>	%Rec%Rec%Rec	Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110 Client Sau Prep	Type: So <u>RPD</u> 1 mple ID: Type: So mple ID:	SS06 oluble

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Job ID: 890-1174-1 SDG: 31403236.020.0129

GC VOA

Prep Batch: 7146

Prep Batch: 7146					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7146/5-A	Method Blank	Total/NA	Solid	5035	
rep Batch: 7158					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1174-1	SS01	Total/NA	Solid	5035	
890-1174-2	SS02	Total/NA	Solid	5035	
890-1174-3	SS03	Total/NA	Solid	5035	
890-1174-4	SS04	Total/NA	Solid	5035	
890-1174-5	SS05	Total/NA	Solid	5035	
890-1174-6	SS06	Total/NA	Solid	5035	
MB 880-7158/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7158/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7158/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5513-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-5513-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 7183					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1174-1	SS01	Total/NA	Solid	8021B	7158
890-1174-2	SS02	Total/NA	Solid	8021B	7158
890-1174-3	SS03	Total/NA	Solid	8021B	7158

Analysis Batch: 7183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1174-1	SS01	Total/NA	Solid	8021B	7158
890-1174-2	SS02	Total/NA	Solid	8021B	7158
890-1174-3	SS03	Total/NA	Solid	8021B	7158
890-1174-4	SS04	Total/NA	Solid	8021B	7158
890-1174-5	SS05	Total/NA	Solid	8021B	7158
890-1174-6	SS06	Total/NA	Solid	8021B	7158
MB 880-7146/5-A	Method Blank	Total/NA	Solid	8021B	7146
MB 880-7158/5-A	Method Blank	Total/NA	Solid	8021B	7158
LCS 880-7158/1-A	Lab Control Sample	Total/NA	Solid	8021B	7158
LCSD 880-7158/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7158
880-5513-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7158
880-5513-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7158

GC Semi VOA

Analysis Batch: 7166

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1174-1	SS01	Total/NA	Solid	8015B NM	7193
890-1174-2	SS02	Total/NA	Solid	8015B NM	7193
890-1174-3	SS03	Total/NA	Solid	8015B NM	7193
890-1174-4	SS04	Total/NA	Solid	8015B NM	7193
890-1174-5	SS05	Total/NA	Solid	8015B NM	7193
890-1174-6	SS06	Total/NA	Solid	8015B NM	7193
MB 880-7193/1-A	Method Blank	Total/NA	Solid	8015B NM	7193
LCS 880-7193/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7193
LCSD 880-7193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7193
880-5484-A-5-D MS	Matrix Spike	Total/NA	Solid	8015B NM	7193
880-5484-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7193
Prep Batch: 7193					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1174-1	SS01	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
890-1174-1	SS01	Total/NA	Solid	8015NM Prep	
890-1174-2	SS02	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

GC Semi VOA (Continued)

Prep Batch: 7193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1174-3	SS03	Total/NA	Solid	8015NM Prep	
890-1174-4	SS04	Total/NA	Solid	8015NM Prep	
890-1174-5	SS05	Total/NA	Solid	8015NM Prep	
890-1174-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-7193/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7193/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5484-A-5-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5484-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1174-1	SS01	Soluble	Solid	DI Leach	
890-1174-2	SS02	Soluble	Solid	DI Leach	
890-1174-3	SS03	Soluble	Solid	DI Leach	
890-1174-4	SS04	Soluble	Solid	DI Leach	
890-1174-5	SS05	Soluble	Solid	DI Leach	
MB 880-7184/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7184/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7184/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1169-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1169-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1174-1	SS01	Soluble	Solid	300.0	7184
890-1174-2	SS02	Soluble	Solid	300.0	7184
890-1174-3	SS03	Soluble	Solid	300.0	7184
890-1174-4	SS04	Soluble	Solid	300.0	7184
890-1174-5	SS05	Soluble	Solid	300.0	7184
MB 880-7184/1-A	Method Blank	Soluble	Solid	300.0	7184
LCS 880-7184/2-A	Lab Control Sample	Soluble	Solid	300.0	7184
LCSD 880-7184/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7184
890-1169-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	7184
890-1169-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7184

Leach Batch: 7258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1174-6	SS06	Soluble	Solid	DI Leach	
MB 880-7258/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7258/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7258/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1174-6 MS	SS06	Soluble	Solid	DI Leach	
890-1174-6 MSD	SS06	Soluble	Solid	DI Leach	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1174-6	SS06	Soluble	Solid	300.0	7258
MB 880-7258/1-A	Method Blank	Soluble	Solid	300.0	7258

Eurofins Xenco, Carlsbad

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Job ID: 890-1174-1

SDG: 31403236.020.0129

5 6

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1174-1 SDG: 31403236.020.0129

HPLC/IC (Continued)

Analysis Batch: 7352 (Continued)

Lab Sample ID LCS 880-7258/2-A	Client Sample ID Lab Control Sample	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 7258
LCSD 880-7258/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7258
890-1174-6 MS	SS06	Soluble	Solid	300.0	7258
890-1174-6 MSD	SS06	Soluble	Solid	300.0	7258

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Released to Imaging: 2/18/2022 8:58:44 AM

Lab Chronicle

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Client Sample ID: SS01

Date Collected: 08/25/21 14:26 Date Received: 08/26/21 11:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7158	08/27/21 10:33	MR	XEN MID
Total/NA	Analysis	8021B		1	7183	08/28/21 08:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			7193	08/27/21 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7166	08/28/21 04:00	AJ	XEN MID
Soluble	Leach	DI Leach			7184	08/27/21 12:02	СН	XEN MID
Soluble	Analysis	300.0		50	7197	08/30/21 01:53	СН	XEN MID

Client Sample ID: SS02 Date Collected: 08/25/21 14:30

Date Received: 08/26/21 11:32

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7158	08/27/21 10:33	MR	XEN MID
Total/NA	Analysis	8021B		1	7183	08/28/21 09:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			7193	08/27/21 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7166	08/28/21 04:21	AJ	XEN MID
Soluble	Leach	DI Leach			7184	08/27/21 12:02	СН	XEN MID
Soluble	Analysis	300.0		50	7197	08/30/21 01:58	CH	XEN MID

Client Sample ID: SS03

Date Collected: 08/25/21 14:35 Date Received: 08/26/21 11:32

Lab Sample ID: 890-1174-3 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7158	08/27/21 10:33	MR	XEN MID
Total/NA	Analysis	8021B		1	7183	08/28/21 09:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			7193	08/27/21 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7166	08/28/21 04:42	AJ	XEN MID
Soluble	Leach	DI Leach			7184	08/27/21 12:02	СН	XEN MID
Soluble	Analysis	300.0		50	7197	08/30/21 02:03	СН	XEN MID

Client Sample ID: SS04 Date Collected: 08/25/21 14:40 Date Received: 08/26/21 11:32

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7158	08/27/21 10:33	MR	XEN MID
Total/NA	Analysis	8021B		1	7183	08/28/21 10:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			7193	08/27/21 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7166	08/28/21 05:03	AJ	XEN MID
Soluble	Leach	DI Leach			7184	08/27/21 12:02	СН	XEN MID
Soluble	Analysis	300.0		50	7197	08/30/21 02:09	СН	XEN MID

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1174-4

Matrix: Solid

Job ID: 890-1174-1 SDG: 31403236.020.0129

Lab Sample ID: 890-1174-1 Matrix: Solid

Lab Sample ID: 890-1174-2

Matrix: Solid

Job ID: 890-1174-1

Matrix: Solid

Matrix: Solid

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SDG: 31403236.020.0129

Lab Sample ID: 890-1174-5

Lab Chronicle

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Client Sample ID: SS05

Date Collected: 08/25/21 14:55 Date Received: 08/26/21 11:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7158	08/27/21 10:33	MR	XEN MID
Total/NA	Analysis	8021B		1	7183	08/28/21 10:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			7193	08/27/21 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7166	08/28/21 05:24	AJ	XEN MID
Soluble	Leach	DI Leach			7184	08/27/21 12:02	СН	XEN MID
Soluble	Analysis	300.0		50	7197	08/30/21 02:14	СН	XEN MID

Client Sample ID: SS06 Date Collected: 08/25/21 15:10 Date Received: 08/26/21 11:32

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7158	08/27/21 10:33	MR	XEN MID
Total/NA	Analysis	8021B		1	7183	08/28/21 11:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			7193	08/27/21 13:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7166	08/28/21 05:45	AJ	XEN MID
Soluble	Leach	DI Leach			7258	08/30/21 09:52	СН	XEN MID
Soluble	Analysis	300.0		50	7352	08/31/21 19:04	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1174-1 SDG: 31403236.020.0129

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Laboratory: Eurofins Xenco, Midland

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

thority	Pr	ogram	Identification Number	Expiration Date
kas	NE	ELAP	T104704400-20-21	06-30-22
The following analytes	are included in this report bu	it the laboratory is not certif	fied by the governing authority. This list ma	av include analytes for v
the agency does not of	fer certification.	·	, , , , ,	
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
the agency does not of	fer certification.	·	, , , , ,	

Eurofins Xenco, Carlsbad

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Method Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Job ID: 890-1174-1 SDG: 31403236.020.0129

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
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.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1174-1 SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1174-1	SS01	Solid	08/25/21 14:26	08/26/21 11:32	0.5	4
890-1174-2	SS02	Solid	08/25/21 14:30	08/26/21 11:32	0.5	
890-1174-3	SS03	Solid	08/25/21 14:35	08/26/21 11:32	0.5	. 5
890-1174-4	SS04	Solid	08/25/21 14:40	08/26/21 11:32	0.5	
890-1174-5	SS05	Solid	08/25/21 14:55	08/26/21 11:32	0.5	
890-1174-6	SS06	Solid	08/25/21 15:10	08/26/21 11:32	0.5	
						8
						9
						12
						13

Revised Date 051418 Rev. 2018										Г
		6								5
e/16/24 11:3	/VIL	2 Anno Syero	n le lide	8/20/2		fer	mar Br	Un	ANNIN	ω -
) Date/Time	/Received by: (Signature)	Relinquished by: (Signature)	Date/Time	0	ıre)	Received by: (Signature	Received	bignature)	Relinquished by/big	-
	are due to circumstances beyond the control enforced unless previously negotiated.	y the client if such losses are due to circums lyzed. These terms will be enforced unless pr	r expenses incurred t to Xenco, but not ana	ny losses o submitted	sponsibility for an for each sample	it assume any re Id a charge of \$5	es and shall no each project ar	ally for the cost of samples 575.00 will be applied to	of service. Signature of this document and remindustriation of samples constructed a varia parchase over in our chain company to source, the client if such losses 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 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	of ser
1631/245.1/7470/7471:Hg		I Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba Be Cc Sb As Ba Be Cc	CRA Sb	TCLP / SPLP 6010: 8RCRA	TCLP / SPLP 6	alyzed b	200.8 / 6020: / Metal(s) to be ar	Liotal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	
			·) ,		. 8 1					
										TT
				_						
DISCRETE			× × ×	-	0.5'	15:10	8/25/2021	S	SS06	
DISCRETE			× × ×		0.5'	14:55	8/25/2021	s	SS05	
DISCRETE			× × ×		0.5'	14:40	8/25/2021	S	SS04	
DISCRETE			x x x		0.5'	14:35	8/25/2021	S	SS03	
DISCRETE			x x x	1	0.5'	14:30	8/25/2021	S	SS02	
DISCRETE			x x x	1	0.5'	14:26	8/25/2021	S	SS01	
Sample Comments			TPH (El BTEX (l Chlorid	Numbe	Depth	Time Sampled	Date Sampled	ion Matrix	Sample Identification	
lab, if received by 4:30pm			EPA	_	6	Total Containers:		No	Sample Custody Seals:	Sam
TAT starts the day recevied by the		_	0=80		4.9	Correction Factor:		Yes No MA	Cooler Custody Seals:	Coo
	stody	890-1174 Chain of Custody		ntai	J	m-ou	1-1	(Yes) No	Received Intact:	Rec
)	ners	D	Thermometer ID		1.2 /1.0	Temperature (°C):	Tem
				•	Yes No	Wet Ice:	No	Temp Blank:	SAMPLE RECEIPT	۲S
					Date:	Due Date	e	Elliot Lee	Sampler's Name:	Sam
Incident # NAPP2118934484						Rush:			P.O. Number:	P.O
Cost Center # 1055841001	-				ne f	Routine	0.0129	31403236.020.0129	Project Number:	Proj
Work Order Notes	-	ANALYSIS REQUEST			Turn Around	Tu	(Battery	Nash 39 Tank Battery	Project Name:	Proj
Other:	Deliverables: EDD ADaPT		Tacoma.Morrissey@wsp.com		Email: Elliot.Lee@wsp.com,	Email:		(432) 236-3849		Phone:
	Reporting:Level II evel III T/UST		Carlsbad, NM, 88220		City, State ZIP:			Midland, Tx 79705	City, State ZIP: Midla	City.
			3104 E Green Street	31	Address:			3300 North A Street	Address: 3300	Add
ids TRC Derfund	Program: UST/PSTRPrownfields	Prog	XTO Energy		Company Name:			WSP Permian office		Corr
mments	Work Order Comments		Kyle Littrell	nt) Ky	Bill to: (if different)			Moir	Project Manager: Dan Moir	Proj
^D age1 of1	0) www.xenco.com	וווווווווווווו, א (אסבירעאי-סייעע) בב רבאט, א ניז וטוססטי-טייעט בעטעטעא, א נא פטעט סיי רבסט Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	55-0900) Atlanta,G	AZ (480-3	-7550) Phoenix	NIM (575-392	Hobb	ATORIES	LABOR	
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	S,TX (214) 902-0300	200 Dalla:	TX (281) 240-4	Houston		MZCO	Xm	
	Work Order No:	ustody	Chain of Custody	Cn						

Received by OCD: 12/30/2021 4:48:04 PM



Received by OCD: 12/30/2021 4:48:04 PM	

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 Client Information (Sub Contract Lab) Client Contact	Sampler Phone:	Chain o	Chain of Custody Record	Lab PM	Record	ssica							Carrier Tracking No(s)	fOring Trace		(s)			,	сос No 890-37	euro coc No 890-371 1	coc No 890-371 1	su su	20	Environment Testing America	nmer	n Tex	sting	ŝ
Address. 1211 W Florida Ave	Due Date Requested 9/1/2021	ă							Ana		ysis F	Requested	lest	e						Pre	Preservatio	Preservation Codes	ŝ						
City Midland State Zip:	TAT Requested (days):	iys):]				asan sa	A - HCL B NaOH C Zn A	NaOH Zn Acetate Nitric Acid	f etate Acid		τοzz	Hexane None AsNaO2 Na2O4S	¥Ö2 [°] ane			
State Zip: TX, 79701					<u>kan na san san san san san san san san sa</u>	<u>firsterens</u>													Reconstruction	n m 0	Nitric Acid NaHSO4 MeOH	Acid				30 AS			
Phone [.] 432-704-5440(Tel)	PO #:				<u> </u>	de de	TPH												anadke	ror	MeOH Amchlor Ascorbic	F MeOH G Amchlor H - Ascorbic Acid	ź		1	Na2S2O3 H2SO4 TSP Dodecahvdrate	hude	3	•
Email	WO #·				Storday Vi	Chlorid	p Full	L													lce DI Water	ter		< ⊂ -	-	ane	Janiyu	liate	
Project Name Nash 39 Tank Battery	Project # [.] 88000207				000/7/10/100	EACH	_S_Pre	EX - L											tainer		EDTA EDA	-				pH 4-5 other (specify)	ify)		
Sile	SSOW#-					D/DI_L	015NM	aic Bi											of con	Other [.]	Ÿ.								
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oil,	eld Filtered S inform MS/M	D_ORGFM_28	15MOD_NM/80	21B/5035FP_C											tal Number o										
	X	X	Preservation Code:	tion Code:	100000				Stand .	dianas				afamen Afa		antal	a and a second	. A.	X			1				1			
SS01 (890-1174-1)	8/25/21	14 26 Mountain		Solid		×	×	×																		52 v 2 v 14 may	1.000000000		
SS02 (890-1174-2)	8/25/21	14 30 Mountain		Solid		×	×	×											- 1										
SS03 (890-1174-3)	8/25/21	14 35 Mountain		Solid		×	×	×											ريهيور										
SS04 (890-1174-4)	8/25/21	14 40 Mountain		Solid		×	×	×											#										
SS05 (890-1174-5)	8/25/21	14 55 Mountain		Solid		×	×	×											æ										
SS06 (890-1174-6)	8/25/21	15 10 Mountain		Solid	+	×	×	×											141										
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 aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided.	places the ownership being analyzed the si ne signed Chain of Cu	of method ana amples must bu stody attesting	alyte & accredita e shipped back to said complic	ition complianc to the Eurofins ance to Eurofin	e upon Xenco I s Xenco	out su LLC lai	bcontr borato	act lat ry or c	borator ther in	ies. T Istruct	his sa ons w	mple :	shipm Irovide	entis ed A	forwa	inges	under to ac	cred	n-of-c tatior	usto 1 stat	dy if	the k	abora ve bro	tory d xught	to Eu	not cu	rently Xenc	Ĕ	Б
Possible Hazard Identification Unconfirmed					Sa	Sample Disposal (A fe	: Dis _i Returr	posa 1 To	le Disposal (A f Return To Client	10	nay t	De assessed if san	ses:	al B	Lal	nple	s ar		Arct	tained long Archive For	For	er th	an 1	mo	may be assessed if samples are retained longer than 1 month)	ths			
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	able Rank 2	N		sp	Special Instructions/QC	Instr	`uctio	ns/Q		Requirements	men	s																
Empty Kit Relinquished by		Date			Time.						\mathbb{N}	\mathcal{N}		Method of Shipment:	d of S	hipm	ent												
Relinquished by Ace Cuf F. Z.C. 2	Date/Time Date/Time:			Company Company		Reco	Received by									Date/Time	ate/Time:	4	N	2			MUN	<u> </u>	Company	¥ ¥			
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Custody Seals Intact Custody Seal No ∆ Yes ∆ No						Coo	er Ten	npera	Cooler Temperature(s) °C		and Other Remarks	r Ren	larks		L	Ļ	ľ	K	Ī.	I	k			ŀ					
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Eurofins Xenco, Carlsbad 1089 N Canal St.

5

Job Number: 890-1174-1

SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1174 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 True The cooler or samples do not appear to have been compromised or tampered with. 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 True Samples are received within Holding Time (excluding tests with immediate HTs) True Sample containers have legible labels. 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 True There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-1174-1

SDG Number: 31403236.020.0129

List Creation: 08/27/21 10:52 AM

List Source: Eurofins Xenco, Midland

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1174 List Number: 2 Creator: Copeland, Tatiana

<6mm (1/4").

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	2.3 / 2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Received by OCD: 12/30/2021 4:48:04 PM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1379-1

Laboratory Sample Delivery Group: 31403236.020.0129 Client Project/Site: Nash 39 Tank Battery

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 10/14/2021 7:57:57 PM Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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Laboratory Job ID: 890-1379-1 SDG: 31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Nash 39 Tank Battery

Job ID: 890-1379-1 SDG: 31403236.020.0129

Qualifiers

Qualifiers		3
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	
Job ID: 890-1379-1 SDG: 31403236.020.0129

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Job ID: 890-1379-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1379-1

Receipt

The samples were received on 10/7/2021 3:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9288 and analytical batch 880-9418 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

		Client	Sample Res	sults				
Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery						S	Job ID: 890 DG: 31403236.0	
Client Sample ID: BG01 Date Collected: 10/06/21 10:15 Date Received: 10/07/21 15:22 Sample Depth: 1						Lab Sa	mple ID: 890- Matr	1379-1 ix: Solic
Method: 300.0 - Anions, Ion Chrom Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8410		49.7	mg/Kg			10/14/21 10:33	10
Client Sample ID: BG01A Date Collected: 10/06/21 10:20 Date Received: 10/07/21 15:22 Sample Depth: 2						Lab Sa	mple ID: 890- Matr	1379-2 ix: Solic
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8210		101	mg/Kg			10/14/21 10:39	2
Client Sample ID: BG01B Date Collected: 10/06/21 10:25 Date Received: 10/07/21 15:22 Sample Depth: 3						Lab Sa	mple ID: 890- Matr	1379-3 ix: Solic
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6670		250	mg/Kg			10/14/21 10:45	50
Client Sample ID: BG01C Date Collected: 10/06/21 10:35 Date Received: 10/07/21 15:22 Sample Depth: 4						Lab Sa	mple ID: 890- Matr	1379-4 ix: Solic
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	10900		248	mg/Kg			10/14/21 10:50	50
Client Sample ID: BG02 Date Collected: 10/06/21 10:55 Date Received: 10/07/21 15:22 Sample Depth: 1						Lab Sa	mple ID: 890- Matr	1379-5 ix: Solic
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	18600		249	mg/Kg			10/14/21 10:56	50
Client Sample ID: BG02A Date Collected: 10/06/21 11:00 Date Received: 10/07/21 15:22 Sample Depth: 2						Lab Sa	mple ID: 890- Matr	1379-6 ix: Solic
Method: 300.0 - Anions, Ion Chrom				 -:	_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15900		250	mg/Kg			10/14/21 11:01	Ę

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Client: WSP USA Inc.		Client	Sample Res	sults			Job ID: 890)-1379- ⁻
Project/Site: Nash 39 Tank Battery						S	DG: 31403236.0	20.012
Client Sample ID: BG02B Date Collected: 10/06/21 11:10 Date Received: 10/07/21 15:22 Sample Depth: 3						Lab Sa	mple ID: 890- Matri	1379- ix: Soli
Method: 300.0 - Anions, Ion Chroma		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	30200		250	mg/Kg		•	10/14/21 11:07	5
Client Sample ID: BG02C						Lab Sa	mple ID: 890-	1379-
Date Collected: 10/06/21 11:20							-	ix: Soli
Date Received: 10/07/21 15:22								
Sample Depth: 4								
Method: 300.0 - Anions, Ion Chroma	atography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	5150	F1	99.8	mg/Kg			10/14/21 13:57	2
Client Sample ID: BG03						Lab Sa	mple ID: 890-	1379-
Date Collected: 10/06/21 12:05								ix: Soli
Date Received: 10/07/21 15:22							inati	
Sample Depth: 1								
Method: 300.0 - Anions, Ion Chroma					_			
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	7530		101	mg/Kg			10/14/21 14:19	2
Client Sample ID: BG03A						Lab Sam	nple ID: 890-1	379-1
Date Collected: 10/06/21 12:10							Matri	ix: Soli
Date Received: 10/07/21 15:22								
Sample Depth: 2								
Method: 300.0 - Anions, Ion Chroma	atography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	6350		99.0	mg/Kg			10/14/21 14:26	2
Client Sample ID: BG03B						Lah San	nple ID: 890-1	379_1
Date Collected: 10/06/21 12:15								ix: Soli
Date Received: 10/07/21 15:22							Wat	IX. 301
Sample Depth: 3								
Method: 300.0 - Anions, Ion Chroma		Qualifier	RL	Unit	D	Bronarad	Analyzad	Dil Fa
Analyte	14600	Quaimer	248	Unit mg/Kg	U	Prepared	Analyzed 10/14/21 14:33	5
_								070.4
Client Sample ID: BG03C						Lap San	ple ID: 890-1	
Date Collected: 10/06/21 12:30							Matr	ix: Soli
Date Received: 10/07/21 15:22 Sample Depth: 4								
Method: 300.0 - Anions, Ion Chroma Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2390		50.0	mg/Kg		riepaieu	10/14/21 14:40	
	2390		50.0	ing/Ky			10/14/21 14.40	I

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		Client	Sample Rea	sults				
Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery						SI	Job ID: 890 DG: 31403236.0	
Client Sample ID: BG04						Lah Sam	ple ID: 890-1	379-1
Date Collected: 10/06/21 12:45 Date Received: 10/07/21 15:22 Sample Depth: 1						Lub Oun		x: Solie
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte Chloride	Result 8910	Qualifier	RL 99.2	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/14/21 15:02	Dil Fa
_	0910		99.Z	iiig/itg				
Client Sample ID: BG04A Date Collected: 10/06/21 12:50 Date Received: 10/07/21 15:22 Sample Depth: 2						Lab Sam	nple ID: 890-1 Matri	379-14 x: Solic
Method: 300.0 - Anions, Ion Chrom								
Analyte		Qualifier		Unit	<u>D</u>	Prepared	Analyzed 10/14/21 15:09	Dil Fac
Chloride	5790		99.4	mg/Kg			10/14/21 15.09	20
Client Sample ID: BG04B Date Collected: 10/06/21 12:55 Date Received: 10/07/21 15:22 Sample Depth: 3						Lab Sam	nple ID: 890-1 Matri	379-1 : x: Solic
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed 10/14/21 15:16	Dil Fac
_Chloride	5980		99.6	mg/Kg			10/14/21 15.16	20
Client Sample ID: BG04C Date Collected: 10/06/21 13:00 Date Received: 10/07/21 15:22 Sample Depth: 4						Lab Sam	n ple ID: 890-1 Matri	379-16 x: Solic
 Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	13800		250	mg/Kg			10/14/21 15:23	50
Client Sample ID: BG05 Date Collected: 10/06/21 13:20 Date Received: 10/07/21 15:22 Sample Depth: 1						Lab Sam	nple ID: 890-1 Matri	379-17 x: Solid
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte		Qualifier	RL	Unit	<u> </u>	Prepared	Analyzed	Dil Fac
Chloride	10800		99.0	mg/Kg			10/14/21 15:31	20
Client Sample ID: BG05A Date Collected: 10/06/21 13:30 Date Received: 10/07/21 15:22 Sample Depth: 2						Lab Sam	nple ID: 890-1 Matri	3 79-1 8 x: Solid
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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10/14/21 15:38

Chloride

mg/Kg

		Client	Sample Res	sults				
Client: WSP USA Inc.							Job ID: 890)-1379-1
Project/Site: Nash 39 Tank Battery						S	DG: 31403236.0	20.0129
Client Sample ID: BG05B						Lab Sam	ple ID: 890-1	379-19
Date Collected: 10/06/21 13:35							Matri	ix: Solid
Date Received: 10/07/21 15:22								
Sample Depth: 3								
Method: 300.0 - Anions, Ion Chroma	tography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8460		99.8	mg/Kg			10/14/21 15:59	20
Client Sample ID: BG05C						Lab Sam	ple ID: 890-1	379-20
Date Collected: 10/06/21 13:45							Matr	ix: Solid
Date Received: 10/07/21 15:22								
Sample Depth: 4								
Method: 300.0 - Anions, Ion Chroma	tography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13700		252	mg/Kg			10/14/21 16:06	50
Client Sample ID: BG06						Lab Sam	ple ID: 890-1	379-21
Date Collected: 10/06/21 14:30							Matri	ix: Solid
Date Received: 10/07/21 15:22								
Sample Depth: 1								
 Method: 300.0 - Anions, Ion Chroma	tography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400		99.4	mg/Kg			10/14/21 16:28	20
Client Sample ID: BG06A						Lab Sam	ple ID: 890-1	379-22
Date Collected: 10/06/21 14:45							· · · · · · · · · · · · · · · · · · ·	ix: Solid
Date Received: 10/07/21 15:22								
Sample Depth: 2								
_ Method: 300.0 - Anions, Ion Chroma	tography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

QC Sample Results

Job ID: 890-1379-1 SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9288/1-A											Client	Sample ID: I		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 9418														
		MB												
Analyte			Qualifier		RL		Unit		D	P	repared	Analyz		Dil Fac
Chloride		<5.00	U		5.00		mg/Kg	9				10/14/21	13:36	1
Lab Sample ID: LCS 880-9288/2-A									Cl	ent	Sampl	e ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 9418														
				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		236.5		mg/Kg			95	90 - 110		
Lab Sample ID: LCSD 880-9288/3-A								Cli	ent S	Sam	ple ID:	Lab Contro	I Samp	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 9418														
				Spike		LCSD	LCSD					%Rec.		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		254.5		mg/Kg		_	102	90 - 110	7	20
Lab Sample ID: 890-1379-8 MS Matrix: Solid												Client Samp	ole ID: E Type: S	
Analysis Batch: 9418												гтер	Type. 3	olubi
Analysis Datch. 3410	Sample	Sam	nle	Spike		MS	MS					%Rec.		
Analyte	Result			Added			Qualifier	Unit		D	%Rec	Limits		
Chloride	5150			4990		11970		mg/Kg		-	137	90 - 110		
Lab Sample ID: 890-1379-8 MSD												Client Samp		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 9418		_	_											
	Sample			Spike		MSD	MSD			_	~-	%Rec.		RPD
Analyte	Result		ifier	Added			Qualifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limi
Chloride	5150	FI		4990		11470	FI	mg/Kg			127	90 - 110	4	20
Lab Sample ID: 890-1379-18 MS												Client Samp	ole ID: E	BG05A
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 9418														
	Sample	Sam	ple	Spike		MS	MS					%Rec.		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	5650			5020		10840		mg/Kg			103	90 - 110		
Lab Sample ID: 890-1379-18 MSD												Client Samp	ole ID: E	3G05A
Matrix: Solid													Type: S	
Analysis Batch: 9418		-	ple	Spike		MSD	MSD					%Rec.		RPD
Analysis Batch: 9418	Sample	Sam				Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
-	Sample Result		ifier	Added				mg/Kg		_	96	90 - 110	3	20
Analyte	-		ifier	Added 5020		10490		mg/itg					-	
Analyte	Result		ifier			10490		ilig/itg						Blank
Analyte Chloride Lab Sample ID: MB 880-9287/1-A	Result		ifier			10490		ing/itg				Sample ID: I	Method	
Analyte Chloride Lab Sample ID: MB 880-9287/1-A Matrix: Solid	Result		ifier			10490		ing/itg				Sample ID: I		
Analyte Chloride Lab Sample ID: MB 880-9287/1-A Matrix: Solid	Result	Qual				10490		ing/itg				Sample ID: I	Method	
Analysis Batch: 9418 Analyte Chloride Lab Sample ID: MB 880-9287/1-A Matrix: Solid Analysis Batch: 9434 Analyte	Result 5650	Qual			RL	10490	Unit	ing/itg	D			Sample ID: I	Method Type: S	

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Job ID: 890-1379-1 SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-9287/2	- A						Client	Sample	ID: Lab Co	ontrol Sa	ample
Matrix: Solid										Type: So	
Analysis Batch: 9434											
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	242.9		mg/Kg		97	90 - 110		
Lab Sample ID: LCSD 880-9287	/ 3-A					Clier	nt Sam	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 9434											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	244.2		mg/Kg		98	90 - 110	1	20
 Lab Sample ID: 880-7018-A-3-B	MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 9434											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	16000		5000	20980		mg/Kg		100	90 - 110		
_											
Lab Sample ID: 880-7018-A-3-C	MSD					Cli	ient Sa	ample IC): Matrix Sp	oike Dup	olicate
Lab Sample ID: 880-7018-A-3-C Matrix: Solid	MSD					Cli	ient Sa	ample IE		oike Dup Type: So	
	MSD					Cli	ient Sa	ample IC			
Matrix: Solid		Sample	Spike	MSD	MSD	Cli	ient Sa	ample IC			
Matrix: Solid	Sample	Sample Qualifier	Spike Added	MSD Result		Cli Unit	ient Sa D	%Rec	Prep		oluble
Matrix: Solid Analysis Batch: 9434	Sample	•	•						Prep %Rec.	Type: So	oluble RPD
Matrix: Solid Analysis Batch: 9434 Analyte	Sample Result 16000	•	Added	Result		Unit		%Rec	Prep %Rec. Limits	Type: So	RPD Limit 20
Matrix: Solid Analysis Batch: 9434 Analyte Chloride	Sample Result 16000	•	Added	Result		Unit		%Rec	Prep %Rec. Limits 90 - 110 Sample ID	Type: So	RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B	Sample Result 16000	•	Added	Result		Unit		%Rec	Prep %Rec. Limits 90 - 110 Sample ID	Type: So <u>RPD</u> 0 : Matrix	RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid	Sample Result 16000 MS	•	Added	Result		Unit		%Rec	Prep %Rec. Limits 90 - 110 Sample ID	Type: So <u>RPD</u> 0 : Matrix	RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid	Sample Result 16000 MS Sample	Qualifier	Added	Result 21000 MS	Qualifier	Unit		%Rec	Prep %Rec. Limits 90 - 110 Sample ID Prep	Type: So <u>RPD</u> 0 : Matrix	RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid Analysis Batch: 9434	Sample Result 16000 MS Sample	Qualifier Sample	Added 5000	Result 21000 MS	Qualifier	Unit mg/Kg	<u>D</u>	%Rec 100 Client	Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec.	Type: So <u>RPD</u> 0 : Matrix	RPD Limit 20 Spike
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid Analysis Batch: 9434 Analyte	Sample Result 16000 MS Sample Result 1730	Qualifier Sample	Added 5000 Spike Added	Result 21000 MS Result	Qualifier	Unit mg/Kg Unit mg/Kg	D	%Rec 100 Client %Rec 105	Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits	Type: So RPD 0 : Matrix Type: So	oluble RPD Limit 20 Spike oluble
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid Analysis Batch: 9434 Analyte Chloride	Sample Result 16000 MS Sample Result 1730	Qualifier Sample	Added 5000 Spike Added	Result 21000 MS Result	Qualifier	Unit mg/Kg Unit mg/Kg	D	%Rec 100 Client %Rec 105	Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Statrix Sp	Type: So RPD 0 : Matrix Type: So	oluble RPD Limit 20 Spike oluble Oluble
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-C	Sample Result 16000 MS Sample Result 1730	Qualifier Sample	Added 5000 Spike Added	Result 21000 MS Result	Qualifier	Unit mg/Kg Unit mg/Kg	D	%Rec 100 Client %Rec 105	Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Statrix Sp	Type: So <u>RPD</u> 0 : Matrix Type: So Dike Dup	oluble RPD Limit 20 Spike oluble Oluble
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-C Matrix: Solid	Sample Result 16000 MS Sample Result 1730	Qualifier Sample Qualifier	Added 5000 Spike Added	Result 21000 MS Result	Qualifier	Unit mg/Kg Unit mg/Kg	D	%Rec 100 Client %Rec 105	Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Statrix Sp	Type: So <u>RPD</u> 0 : Matrix Type: So Dike Dup	oluble RPD Limit 20 Spike oluble Oluble
Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-B Matrix: Solid Analysis Batch: 9434 Analyte Chloride Lab Sample ID: 880-7032-A-1-C Matrix: Solid	Sample Result 16000 MS Sample Result 1730 MSD	Qualifier Sample Qualifier	Added 5000 Spike Added 1240	Result 21000 MS Result 3034	Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg	D	%Rec 100 Client %Rec 105	Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 9: Matrix Sp Prep	Type: So <u>RPD</u> 0 : Matrix Type: So Dike Dup	oluble RPD Limit 20 Spike oluble Olicate oluble

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Job ID: 890-1379-1 SDG: 31403236.020.0129

HPLC/IC

Leach Batch: 9287

Leach Batch: 9287					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1379-1	BG01	Soluble	Solid	DI Leach	
890-1379-2	BG01A	Soluble	Solid	DI Leach	5
890-1379-3	BG01B	Soluble	Solid	DI Leach	
890-1379-4	BG01C	Soluble	Solid	DI Leach	
890-1379-5	BG02	Soluble	Solid	DI Leach	
890-1379-6	BG02A	Soluble	Solid	DI Leach	7
890-1379-7	BG02B	Soluble	Solid	DI Leach	
MB 880-9287/1-A	Method Blank	Soluble	Solid	DI Leach	3
LCS 880-9287/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9287/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7018-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7018-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-7032-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7032-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
each Batch: 9288					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1379-8	BG02C	Soluble	Solid	DI Leach	
890-1379-9	BG03	Soluble	Solid	DI Leach	

Leach Batch: 9288

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1379-8	BG02C	Soluble	Solid	DI Leach	
890-1379-9	BG03	Soluble	Solid	DI Leach	
890-1379-10	BG03A	Soluble	Solid	DI Leach	
890-1379-11	BG03B	Soluble	Solid	DI Leach	
890-1379-12	BG03C	Soluble	Solid	DI Leach	
890-1379-13	BG04	Soluble	Solid	DI Leach	
890-1379-14	BG04A	Soluble	Solid	DI Leach	
890-1379-15	BG04B	Soluble	Solid	DI Leach	
890-1379-16	BG04C	Soluble	Solid	DI Leach	
890-1379-17	BG05	Soluble	Solid	DI Leach	
890-1379-18	BG05A	Soluble	Solid	DI Leach	
890-1379-19	BG05B	Soluble	Solid	DI Leach	
890-1379-20	BG05C	Soluble	Solid	DI Leach	
890-1379-21	BG06	Soluble	Solid	DI Leach	
890-1379-22	BG06A	Soluble	Solid	DI Leach	
MB 880-9288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1379-8 MS	BG02C	Soluble	Solid	DI Leach	
890-1379-8 MSD	BG02C	Soluble	Solid	DI Leach	
890-1379-18 MS	BG05A	Soluble	Solid	DI Leach	
890-1379-18 MSD	BG05A	Soluble	Solid	DI Leach	

Analysis Batch: 9418

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1379-8	BG02C	Soluble	Solid	300.0	9288
890-1379-9	BG03	Soluble	Solid	300.0	9288
890-1379-10	BG03A	Soluble	Solid	300.0	9288
890-1379-11	BG03B	Soluble	Solid	300.0	9288
890-1379-12	BG03C	Soluble	Solid	300.0	9288
890-1379-13	BG04	Soluble	Solid	300.0	9288
890-1379-14	BG04A	Soluble	Solid	300.0	9288
890-1379-15	BG04B	Soluble	Solid	300.0	9288
890-1379-16	BG04C	Soluble	Solid	300.0	9288

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

HPLC/IC (Continued)

Analysis Batch: 9418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1379-17	BG05	Soluble	Solid	300.0	9288
890-1379-18	BG05A	Soluble	Solid	300.0	9288
890-1379-19	BG05B	Soluble	Solid	300.0	9288
890-1379-20	BG05C	Soluble	Solid	300.0	9288
890-1379-21	BG06	Soluble	Solid	300.0	9288
890-1379-22	BG06A	Soluble	Solid	300.0	9288
MB 880-9288/1-A	Method Blank	Soluble	Solid	300.0	9288
LCS 880-9288/2-A	Lab Control Sample	Soluble	Solid	300.0	9288
LCSD 880-9288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9288
890-1379-8 MS	BG02C	Soluble	Solid	300.0	9288
890-1379-8 MSD	BG02C	Soluble	Solid	300.0	9288
890-1379-18 MS	BG05A	Soluble	Solid	300.0	9288
890-1379-18 MSD	BG05A	Soluble	Solid	300.0	9288

Analysis Batch: 9434

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90-1379-17	BG05	Soluble	Solid	300.0	9288	
90-1379-18	BG05A	Soluble	Solid	300.0	9288	5
90-1379-19	BG05B	Soluble	Solid	300.0	9288	
90-1379-20	BG05C	Soluble	Solid	300.0	9288	
90-1379-21	BG06	Soluble	Solid	300.0	9288	
90-1379-22	BG06A	Soluble	Solid	300.0	9288	7
1B 880-9288/1-A	Method Blank	Soluble	Solid	300.0	9288	
CS 880-9288/2-A	Lab Control Sample	Soluble	Solid	300.0	9288	8
CSD 880-9288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9288	
90-1379-8 MS	BG02C	Soluble	Solid	300.0	9288	9
90-1379-8 MSD	BG02C	Soluble	Solid	300.0	9288	
90-1379-18 MS	BG05A	Soluble	Solid	300.0	9288	
90-1379-18 MSD	BG05A	Soluble	Solid	300.0	9288	
aluaia Datahu 0424						
	Client Sample ID	Bron Type	Matrix	Mathad	Bron Batch	
ab Sample ID	Client Sample ID BG01	Prep Type Soluble	Matrix Solid	<u>Method</u> 300.0	Prep Batch 9287	
ab Sample ID 00-1379-1	BG01	Soluble	Solid	300.0	9287	
ab Sample ID 90-1379-1 90-1379-2	BG01 BG01A	Soluble	Solid	300.0 300.0	9287	11 12 13
ab Sample ID 00-1379-1 00-1379-2 00-1379-3	BG01	Soluble	Solid	300.0	9287	11 12 13
ab Sample ID 00-1379-1 00-1379-2 00-1379-3 00-1379-4	BG01 BG01A BG01B	Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	9287 9287 9287 9287	11 12 13
b Sample ID 00-1379-1 00-1379-2 00-1379-3 00-1379-4 00-1379-5	BG01 BG01A BG01B BG01C	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287	11 12 13
b Sample ID 10-1379-1 10-1379-2 10-1379-3 10-1379-4 10-1379-5 10-1379-6	BG01 BG01A BG01B BG01C BG02	Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287	11 12 13
ab Sample ID 00-1379-1 00-1379-2 00-1379-3 00-1379-4 00-1379-5 00-1379-6 00-1379-7	BG01 BG01A BG01B BG01C BG02 BG02A	Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287 9287	11 12 13
ab Sample ID 00-1379-1 00-1379-2 00-1379-3 00-1379-4 00-1379-5 00-1379-6 00-1379-7 B 880-9287/1-A	BG01 BG01A BG01B BG01C BG02 BG02A BG02B	Soluble Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287 9287 9287	11 12 13
b Sample ID 10-1379-1 10-1379-2 10-1379-3 10-1379-4 10-1379-5 10-1379-5 10-1379-6 10-1379-7 B 880-9287/1-A CS 880-9287/2-A	BG01 BG01A BG01B BG01C BG02 BG02A BG02A BG02B Method Blank	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287 9287 9287	11 12 13
ab Sample ID 00-1379-1 00-1379-2 00-1379-3 00-1379-4 00-1379-5 00-1379-6 00-1379-7 B 880-9287/1-A CS 880-9287/2-A CSD 880-9287/2-A	BG01 BG01A BG01B BG01C BG02 BG02A BG02A BG02B Method Blank Lab Control Sample	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287 9287 9287	
bb Sample ID 00-1379-1 00-1379-2 00-1379-3 00-1379-4 00-1379-5 00-1379-6 00-1379-7 B 880-9287/1-A CS 880-9287/2-A CSD 880-9287/3-A 00-7018-A-3-B MS	BG01 BG01A BG01B BG01C BG02 BG02A BG02B Method Blank Lab Control Sample Lab Control Sample Dup	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287 9287 9287	11 12 13
ab Sample ID 90-1379-1 90-1379-2 90-1379-3 90-1379-4 90-1379-5 90-1379-7 18 880-9287/1-A CS 880-9287/2-A CSD 880-9287/3-A 80-7018-A-3-B MS 80-7018-A-3-C MSD 80-7032-A-1-B MS	BG01 BG01A BG01B BG01C BG02 BG02A BG02B Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike	Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0 300.0	9287 9287 9287 9287 9287 9287 9287 9287	11 12 13

Job ID: 890-1379-1 SDG: 31403236.020.0129

				Lab Chro	nicie				
Client: WSP USA Project/Site: Nas		ton							b ID: 890-1379-1 403236.020.0129
-		lery							
Client Sample								Lab Sample I	D: 890-1379-1
Date Collected:									Matrix: Solid
Date Received:	10/07/21 15:22	2							
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9287	10/12/21 10:25	CH	XEN MID	
Soluble	Analysis	300.0		10	9434	10/14/21 10:33	СН	XEN MID	
_ Client Sample								Lab Samplo I	D: 890-1379-2
								Lab Sample	
Date Collected: Date Received:									Matrix: Solid
	10/07/21 15.22	<u></u>							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9287	10/12/21 10:25	СН	XEN MID	
Soluble	Analysis	300.0		20	9434	10/14/21 10:39	СН	XEN MID	
Client Sample	ID: BG01E	3						Lab Sample I	D: 890-1379-3
Date Collected:	10/06/21 10:2	5							Matrix: Solid
Date Received:	10/07/21 15:22	2							
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	 DI Leach			9287	10/12/21 10:25	CH	XEN MID	
Colubio	Louon	DILOUON							
Soluble	Analysis	300.0		50	9434	10/14/21 10:45	СН	XEN MID	
				50				XEN MID	D: 900 1270 /
– Client Sample	e ID: BG01C	;		50				XEN MID	D: 890-1379-4
Client Sample Date Collected:	e ID: BG01C 10/06/21 10:3	5		50				XEN MID	D: 890-1379-4 Matrix: Solid
Client Sample Date Collected:	e ID: BG01C 10/06/21 10:3	5		50				XEN MID	
Client Sample Date Collected:	e ID: BG01C 10/06/21 10:3	5		50 Dilution				XEN MID	
Client Sample Date Collected:	e ID: BG010 10/06/21 10:33 10/07/21 15:22	5 2	Run		9434	10/14/21 10:45		XEN MID Lab Sample I	
Client Sample Date Collected: Date Received:	e ID: BG01C 10/06/21 10:3 10/07/21 15:22 Batch	5 2 Batch	<u>Run</u>	Dilution	9434 Batch	10/14/21 10:45	СН	XEN MID	
Client Sample Date Collected: Date Received:	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type	5 2 Batch Method	<u>Run</u>	Dilution	9434 Batch Number	10/14/21 10:45 Prepared or Analyzed	CH Analyst	XEN MID Lab Sample I	
Client Sample Date Collected: Date Received: Prep Type Soluble Soluble	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis	5 2 Batch Method DI Leach	<u>Run</u>	Dilution Factor	9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH	XEN MID Lab Sample I Lab XEN MID XEN MID XEN MID	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Prep Type Soluble Soluble Client Sample	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02	Batch Method DI Leach 300.0	<u>Run</u>	Dilution Factor	9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH	XEN MID Lab Sample I Lab XEN MID XEN MID XEN MID	
Client Sample Date Collected: Date Received: Date Received: Prep Type Soluble Soluble Client Sample Date Collected:	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:53	5 2 Batch Method DI Leach 300.0	<u>Run</u>	Dilution Factor	9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH	XEN MID Lab Sample I Lab XEN MID XEN MID XEN MID	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Prep Type Soluble Soluble Client Sample Date Collected:	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:53 10/07/21 15:22	5 2 Batch Method DI Leach 300.0	Run	Dilution Factor 50	9434 Batch Number 9287 9434	Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50	CH Analyst CH	XEN MID Lab Sample I Lab XEN MID XEN MID XEN MID	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Prep Type Soluble Soluble Client Sample Date Collected: Date Received:	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:55 10/07/21 15:22 Batch	5 2 Batch Method DI Leach 300.0 5 2 Batch		Dilution Factor 50 Dilution	9434 Batch Number 9287 9434 Batch	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared	CH Analyst CH CH	XEN MID Lab Sample I XEN MID XEN MID Lab Sample I	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Soluble Client Sample Date Collected: Date Received: Prep Type	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:53 10/07/21 15:22 Batch Type	Batch Method DI Leach 300.0	<u>Run</u>	Dilution Factor 50	9434 Batch Number 9287 9434 Batch Number	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed	CH Analyst CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Soluble Client Sample Date Collected: Date Received: Prep Type Soluble	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:53 10/07/21 15:22 Batch Type Leach	Batch Method DI Leach 300.0 5 2 Batch Method DI Leach		Dilution Factor 50 Dilution Factor	9434 Batch Number 9287 9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab XEN MID	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Soluble Client Sample Date Collected: Date Received: Prep Type Soluble Soluble	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:53 10/07/21 15:22 Batch Type Leach Analysis	Batch Method DI Leach 300.0 Batch Method DI Leach 300.0		Dilution Factor 50 Dilution	9434 Batch Number 9287 9434 Batch Number	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed	CH Analyst CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Lab Sample I XEN MID Lab Sample I	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Soluble	e ID: BG01C 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:53 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02A	Batch Method DI Leach 300.0 5 2 Batch Method DI Leach 300.0		Dilution Factor 50 Dilution Factor	9434 Batch Number 9287 9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Lab Sample I XEN MID Lab Sample I	Matrix: Solid D: 890-1379-5 Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Soluble Date Collected: Date Received: Prep Type Soluble Soluble Soluble Client Sample Date Collected:	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:55 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02A 10/06/21 11:00	Batch Method DI Leach 300.0 Batch Method DI Leach 300.0		Dilution Factor 50 Dilution Factor	9434 Batch Number 9287 9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Lab Sample I XEN MID Lab Sample I	Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Soluble Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Client Sample Date Collected:	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:55 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02A 10/06/21 11:00	Batch Method DI Leach 300.0 Batch Method DI Leach 300.0		Dilution Factor 50 Dilution Factor	9434 Batch Number 9287 9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Lab Sample I XEN MID Lab Sample I	Matrix: Solid D: 890-1379-5 Matrix: Solid
Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Client Sample Date Collected: Date Received: Prep Type Soluble Soluble	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:55 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02A 10/06/21 11:00	Batch Method DI Leach 300.0 Batch Method DI Leach 300.0		Dilution Factor 50 Dilution Factor	9434 Batch Number 9287 9434 Batch Number 9287	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25	CH Analyst CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Lab Sample I XEN MID Lab Sample I	Matrix: Solid D: 890-1379-5 Matrix: Solid
Client Sample Date Collected: Date Received: Date Received: Soluble Soluble Date Collected: Date Received: Prep Type Soluble Soluble Soluble Client Sample Date Collected:	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:55 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02A 10/06/21 11:00 10/06/21 11:02	Batch Method DI Leach 300.0 Batch Method DI Leach 300.0		Dilution Factor 50 Dilution Factor 50	9434 Batch Number 9287 9434 Batch Number 9287 9434	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:56	CH Analyst CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Lab Sample I XEN MID Lab Sample I	Matrix: Solid D: 890-1379-5 Matrix: Solid
Client Sample Date Collected: Date Received: Soluble Soluble Client Sample Date Collected: Date Received: Soluble Soluble Soluble Client Sample Date Collected:	e ID: BG010 10/06/21 10:33 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02 10/06/21 10:55 10/07/21 15:22 Batch Type Leach Analysis e ID: BG02A 10/06/21 11:00 10/06/21 15:22 Batch	Batch Method DI Leach 300.0 Batch Method DI Leach 300.0 Batch Method DI Leach 300.0 Batch Batch	Run	Dilution Factor 50 Dilution Factor 50 Dilution	9434 Batch Number 9287 9434 Batch Number 9287 9434 Batch	10/14/21 10:45 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:50 Prepared or Analyzed 10/12/21 10:25 10/14/21 10:56 Prepared Prepared	CH Analyst CH CH CH CH CH CH CH	XEN MID Lab Sample I Lab XEN MID XEN MID Lab Sample I Lab Sample I Lab Sample I XEN MID XEN MID Lab Sample I	Matrix: Solid D: 890-1379-5 Matrix: Solid

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				Lab Chro	nicie				
Client: WSP US	SA Inc. Ish 39 Tank Bat	ton							ob ID: 890-1379- 403236.020.012
-		-						309.31	403230.020.012
	le ID: BG02E							Lab Sample	ID: 890-1379-
	: 10/06/21 11:1								Matrix: Soli
Date Received:	10/07/21 15:22	2							
_	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9287	10/12/21 10:25	СН	XEN MID	
Soluble	Analysis	300.0		50	9434	10/14/21 11:07	СН	XEN MID	
Client Samp	le ID: BG020							Lab Sample	ID: 890-1379-
	: 10/06/21 11:2								Matrix: Soli
Date Received:	10/07/21 15:22	2							
-	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID	
Soluble	Analysis	300.0		20	9418	10/14/21 13:57	СН	XEN MID	
Client Samp								l ah Samnlo	ID: 890-1379-
	: 10/06/21 12:0	5							Matrix: Soli
	: 10/08/21 12:0 : 10/07/21 15:2								Watrix. Son
-	10/07/21 10.22	-							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID	
Soluble	Analysis	300.0		20	9418	10/14/21 14:19	СН	XEN MID	
Client Samp	le ID: BG03A	4					L	ab Sample II	D: 890-1379-1
Date Collected	: 10/06/21 12:1	0							Matrix: Soli
Date Received:	10/07/21 15:22	2							
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID	
Soluble	Analysis	300.0		20	9418	10/14/21 14:26	СН	XEN MID	
Client Samp	le ID: BG03E	3					L	ab Sample I	D: 890-1379-1
	: 10/06/21 12:1								Matrix: Soli
Date Received:	10/07/21 15:22	2							
_	Datah	Detak		Dilution	Detals	Durant			
Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach	Kuii		9288	10/12/21 10:28	CH	_ Lab XEN MID	
Soluble	Analysis	300.0		50	9418	10/14/21 14:33	СН	XEN MID	
_	-				0110				
	le ID: BG030						L	ab Sample II	D: 890-1379-1
	: 10/06/21 12:3								Matrix: Soli
Jate Received:	10/07/21 15:22	2							
	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID	

Eurofins Xenco, Carlsbad

Released to Imaging: 2/18/2022 8:58:44 AM

Analysis

300.0

Soluble

10

9418

10/14/21 14:40

СН

XEN MID

Lab Chronicle					A 1	
Job ID: 89 SDG: 31403236.				tery		Client: WSP US/ Project/Site: Nas
Lab Sample ID: 890-				_		Client Sample
Mat				-		Date Collected: Date Received:
Dilution Batch Prepared	Batch	Dilution		Batch	Batch	_
un Factor Number or Analyzed Analyst Lab	Number	Factor	Run	Method	Туре	Ргер Туре
9288 10/12/21 10:28 CH XEN MID	9288			DI Leach	Leach	Soluble
20 9418 10/14/21 15:02 CH XEN MID	9418	20		300.0	Analysis	Soluble
Lab Sample ID: 890-				l l	e ID: BG04A	Client Sample
Mat						Date Collected:
				2	10/07/21 15:22	Date Received:
Dilution Batch Prepared	Batch	Dilution		Batch	Batch	
un Factor Number or Analyzed Analyst Lab	Number	Factor	Run	Method	Туре	Prep Type
9288 10/12/21 10:28 CH XEN MID				DI Leach	Leach	Soluble
20 9418 10/14/21 15:09 CH XEN MID	9418	20		300.0	Analysis	Soluble
Lab Sample ID: 890-				}	e ID: BG04E	Client Sample
Mat						Date Collected:
				2	10/07/21 15:22	Date Received:
Dilution Batch Prepared	Batch	Dilution		Batch	Batch	_
un Factor Number or Analyzed Analyst Lab	Number	Factor	Run	Method	Туре	Prep Type
9288 10/12/21 10:28 CH XEN MID	9288			DI Leach	Leach	Soluble
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20 9418 10/14/21 15:16 CH XEN MID	9418	20		300.0	Analysis	Soluble
20 9418 10/14/21 15:16 CH XEN MID	9418	20			_	Client Sample
	9418	20		;	e ID: BG04C 10/06/21 13:00	Client Sample Date Collected:
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890-	9418	20		;	e ID: BG04C 10/06/21 13:00	– Client Sample
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890-				;	e ID: BG04C 10/06/21 13:00	Client Sample Date Collected:
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890- Mat Dilution Batch Prepared or Analyzed Analyst Lab	Batch	Dilution	Run	;) 2	e ID: BG04C 10/06/21 13:00 10/07/21 15:22	Client Sample Date Collected:
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890- Mat Dilution Batch Prepared	Batch Number	Dilution	Run	Batch	e ID: BG04C 10/06/21 13:00 10/07/21 15:22 Batch	- Client Sample Date Collected: Date Received: -
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890- Mat Dilution Batch Prepared or Analyzed Analyst Lab	Batch Number 9288	Dilution Factor	Run	Batch Method	e ID: BG040 10/06/21 13:00 10/07/21 15:22 Batch Type	Client Sample Date Collected: Date Received: Prep Type
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890 Mat Dilution Batch Prepared or Analyzed Analyst Lab 9288 10/12/21 10:28 CH XEN MID	Batch Number 9288	Dilution Factor	Run	Batch Method DI Leach	e ID: BG040 10/06/21 13:00 10/07/21 15:22 Batch Type Leach Analysis	Client Sample Date Collected: Date Received: Prep Type Soluble
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890 Mat Jilution Batch Number Prepared or Analyzed 10/12/21 10:28 Analyst CH Lab 50 9418 10/14/21 15:23 CH XEN MID	Batch Number 9288	Dilution Factor	Run	Batch Method DI Leach 300.0	e ID: BG04C 10/06/21 13:00 10/07/21 15:22 Batch Type Leach Analysis e ID: BG05 10/06/21 13:20	Prep Type Soluble Soluble Client Sample Date Collected:
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20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890-Mat un Factor Number Prepared Analyst Lab 9288 10/12/21 10:28 Analyst Lab 50 9418 10/12/21 10:28 CH XEN MID Lab Sample ID: 890- Mat Mumber 50 9418 10/14/21 15:23 CH XEN MID Lab Sample ID: 890- Mat Mat Dilution Batch Prepared un Factor Number or Analyzed Analyst Lab Matheter un Factor Number or Analyzed Analyst Lab 20 9418 10/12/21 10:28 CH XEN MID XEN MID Lab Sample ID: 890-	Batch Number 9288 9418 9418 Batch Number 9288	Dilution Factor 50 Dilution Factor		Batch Method DI Leach 300.0 Batch Method DI Leach 300.0	e ID: BG040 10/06/21 13:00 10/07/21 15:22 Batch Type Leach Analysis e ID: BG05 10/06/21 13:20 Batch Type Leach Analysis e ID: BG05A 10/06/21 13:30	Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Client Sample Client Sampl
20 9418 10/14/21 15:16 CH XEN MID Lab Sample ID: 890-Mat un Factor Number Prepared Analyst Lab 9288 10/12/21 10:28 Analyst Lab 50 9418 10/12/21 10:28 CH XEN MID Lab Sample ID: 890- Mat Mumber 50 9418 10/14/21 15:23 CH XEN MID Lab Sample ID: 890- Mat Mat Dilution Batch Prepared un Factor Number or Analyzed Analyst Lab Matheter un Factor Number or Analyzed Analyst Lab 20 9418 10/12/21 10:28 CH XEN MID XEN MID Lab Sample ID: 890-	Batch Number 9288 9418 9418 Batch Number 9288 9418	Dilution Factor 50 Dilution Factor 20		Batch Method DI Leach 300.0 Batch Method DI Leach 300.0	e ID: BG040 10/06/21 13:00 10/07/21 15:22 Batch Type Leach Analysis e ID: BG05 10/06/21 13:20 Batch Type Leach Analysis e ID: BG05A 10/06/21 13:30	Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Client Sample Date Collected: Date Received: Prep Type Soluble Soluble Client Sample Client Sample Date Collected:
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Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

8

Lab Chronicle

Job ID: 890-1379-1
SDG: 31403236.020.0129

Lab Sample ID: 890-1379-19

Lab Sample ID: 890-1379-20

Lab Sample ID: 890-1379-21

Lab Sample ID: 890-1379-22

Client Sample ID: BG05B Date Collected: 10/06/21 13:35

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Date	conecteu.	10/00/21	13.55
Date	Received:	10/07/21	15:22

Γ	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		20	9418	10/14/21 15:59	СН	XEN MID

Client Sample ID: BG05C Date Collected: 10/06/21 13:45 Date Received: 10/07/21 15:22

		Batch	Batch		Dilution	Batch	Prepared		
Prep T	Гуре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	e	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	e	Analysis	300.0		50	9418	10/14/21 16:06	СН	XEN MID

Client Sample ID: BG06

Date Collected: 10/06/21 14:30

I	Dat	te	Re	cei	vec	1: 1	0/	07	21	1	5	:2	2

		Batch	Batch		Dilution	Batch	Prepared		
Prep	р Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Solu	uble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Solu	uble	Analysis	300.0		20	9418	10/14/21 16:28	СН	XEN MID

Client Sample ID: BG06A

Date Collected: 10/06/21 14:45

Date Received: 10/07/21 15:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach		·	9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		20	9418	10/14/21 16:35	СН	XEN MID

Laboratory References:

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

Accreditation/Certification Summarv

	Accreditation/C	Certification Summary		
Client: WSP USA Inc. Project/Site: Nash 39 Tank	Battery		Job ID: 890- SDG: 31403236.02	
Laboratory: Eurofins	Xenco, Midland isted below are applicable to this report.			3
Authority	Program	Identification Number	Expiration Date	4
Texas	NELAP	T104704400-21-22	06-30-22	5
				8
				9

Method Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Job ID: 890-1379-1 SDG: 31403236.020.0129

Method	Method Description	Protocol	Laboratory	
300.0	Anions, Ion Chromatography	MCAWW	XEN MID	_
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID	
Protocol Re	eferences:			Ę
ASTM =	ASTM International			
MCAWV	V = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Su	ubsequent Revisions.		
Laboratory	References:			
XEN MI	D = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			

Laboratory References:

Sample Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1379-1 SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1379-1	BG01	Solid	10/06/21 10:15	10/07/21 15:22	1
890-1379-2	BG01A	Solid	10/06/21 10:20	10/07/21 15:22	2
890-1379-3	BG01B	Solid	10/06/21 10:25	10/07/21 15:22	3
890-1379-4	BG01C	Solid	10/06/21 10:35	10/07/21 15:22	4
890-1379-5	BG02	Solid	10/06/21 10:55	10/07/21 15:22	1
890-1379-6	BG02A	Solid	10/06/21 11:00	10/07/21 15:22	2
890-1379-7	BG02B	Solid	10/06/21 11:10	10/07/21 15:22	3
890-1379-8	BG02C	Solid	10/06/21 11:20	10/07/21 15:22	4
890-1379-9	BG03	Solid	10/06/21 12:05	10/07/21 15:22	1
890-1379-10	BG03A	Solid	10/06/21 12:10	10/07/21 15:22	2
890-1379-11	BG03B	Solid	10/06/21 12:15	10/07/21 15:22	3
890-1379-12	BG03C	Solid	10/06/21 12:30	10/07/21 15:22	4
890-1379-13	BG04	Solid	10/06/21 12:45	10/07/21 15:22	1
890-1379-14	BG04A	Solid	10/06/21 12:50	10/07/21 15:22	2
890-1379-15	BG04B	Solid	10/06/21 12:55	10/07/21 15:22	3
890-1379-16	BG04C	Solid	10/06/21 13:00	10/07/21 15:22	4
890-1379-17	BG05	Solid	10/06/21 13:20	10/07/21 15:22	1
890-1379-18	BG05A	Solid	10/06/21 13:30	10/07/21 15:22	2
890-1379-19	BG05B	Solid	10/06/21 13:35	10/07/21 15:22	3
890-1379-20	BG05C	Solid	10/06/21 13:45	10/07/21 15:22	4
890-1379-21	BG06	Solid	10/06/21 14:30	10/07/21 15:22	1
890-1379-22	BG06A	Solid	10/06/21 14:45	10/07/21 15:22	2

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	Ule ce	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from <u>client company to Asnoc, its animates and socormations</u> . It assumes that a summary to many organization of a service. As not and the service and the control of service. As not and the service and the control of service. As not and the service and the control of service. As not any to a service and the control of service. As 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.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	В		В	в	в		В	В	В		Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:			Project Manager:	X	
	ho	(Signature)	ocument and relinqu lable only for the course rge of \$75.00 will be	;) and Metal(s)	10 200.8 / 6020:	BG03A	BG03	BG02C	BG02B	BG02A	BG02	BG01C	BG01B	BG01A	BG01	ification	s: Yes No	Yes No	Tes	6.01		A		3140	Nash	(432) 236-3849	Midland, TX 79705	3300 North A Street	WSP USA	Tacoma Morrissey		
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		/ Received	of samples cons ples and shall no to each project ar	inalyzed		10/06/21	10/06/21	10/06/21	10/06/21	10/06/21	10/06/21	10/06/21	10/06/21	10/06/21	10/06/21	Cate Sampled		ř-	H	1	K: Yes No	astro	121	31403236.020.0129	Nash 39 Tank Battery						Hobbs	
	Y	Received by: (Signature)	titutes a valid pu ot assume any res nd a charge of \$5	TCLP / SPL	8RCRA 13PPM	1210	1205	1120	1110	1100	1055	1035	1025	1020	1015	Time Sampled	Total Containers:	Correction Factor:	Nr-00-	Thermometer ID	Wet Ice:	Due Date	Rush:	Routine	Tur	Email:					Chain of Custocy Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)	
		re)	rchase order from sponsibility for a for each sample	TCLP / SPLP 6010: 8RCRA	M Texas 11	2	1	4'	3'	2'	4	4	ų	2	<u>1</u>	Depth		-0.2		0	Xes No)ate:		ie R	Turn Around	Email: Alexis.Castro@wsp.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333 Midland,TX (432-704-5440) EL Paso.TX (915)585-3443 Lubbock,TX (806)794-1296 (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (8	
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	121	Date/Time	or expen d to Xenc	Sb As	Sb As											TPH (I BTEX		_					+				arlsbad	22 W. N	XTO Energy	Kyle Littrell	ain s, TX (214 9aso, TX (55-0900)
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		e)	circumsta	VI Se /	Mg Mi							-	-		-		_	_	Clain				_	_	TST	Delivera	Reportir	State	Prograr		20-2000)	
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Project Manager: Tacc	Tacoma Morrissev		, INIXI (07 0-092-7	Bill to: (if different)	Bill to: (if different) Kyle Littrell					Work Order Comments	ints
	WSP USA		_	Company Name		(gy		Progr	Program: UST/PST	□ PRP □Brownfields	☐RC ☐uperfund
	3300 North A Street			Address:		ermod St.		St			
e ZIP:	Midland, TX 79705		0	City, State ZIP:		Carlsbad, NM 88220		Repor	Reporting:Level II		
	(432) 236-3849		Email: 2	Alexis.Castro@wsp.com	wsp.com Taco	Tacoma.Morrissey@wsp.com	@wsp.com	Delive	Deliverables: EDD	ADaPT	Other:
Project Name:	Nash 39 Tank Battery	k Battery	Tur	Turn Around		_	ANALYSIS	LYSIS REQUEST		-	Work Order Notes
Project Number:	31403236.020.0129	20.0129	Routine	ie R						ID: NA	ID: NAPP2118934484
P.O. Number:	7/3/2021	21	Rush:		-					CC#:	CC#: 1055841001
Sampler's Name:	Alexis Castro	astro	Due Date	ate:						API: 3	API: 30-015-36951
SAMPLE RECEIPT	Temp Blank:	r Yes No	Wet Ice:	(Yes) No	s 						
Temperature (°C):	6.0/5.8										
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Sample Custody Seals:	Tes NO NA		Total Containers.		EPA	_					
Sample Identification	tion Matrix	Sampled	Sampled	Depth	Num TPH	Chlo					Sample Comments
BG03B	B S	10/06/21	1215	3'		×					DISCRETE
BG03C	с s	10/06/21	1230	4		×					DISCRETE
BG04	4 S	10/06/21	1245			×					DISCRETE
BG04A		10/06/21	1250	2'		×				 	DISCRETE
BG04B	S B	10/06/21	1255	ų		×					DISCRETE
BG04C	iC S	10/06/21	1300	Ą		×					DISCRETE
BG05	5 S	10/06/21	1320	1.		×					DISCRETE
BG05A	S	10/06/21	1330	2'		×	+				DISCRETE
BG05B	S	10/06/21	1335	ω		×					DISCRETE
BG05C	C S	10/06/21	1345	4		×					DISCRETE
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: d Metal(s) to be a	1	8RCRA 13PPM Texa TCLP / SPLP 6010:	M Texas 11 Al P 6010: 8RCRA	Sb As Sb As	Ba Be B Cd Ba Be Cd C	Ca Cr Co r Co Cu P	CuFePbMg bMnMoNiSe	к Se	Ag SiC)2 Na Sr Ti Sn U V Zn 1631/245.1/7470/7471:
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client compeny to Xenco, its affiliates and sub- 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 su 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 ter	ent and relinquishment only for the cost of sam 575.00 will be applied t	of samples consi ples and shall no o each project ar	<u>titutes a valid pur</u> t assume any res nd a charge of \$5	rchase order from ponsibility for any for each sample s	client eempany to y losses or expens submitted to Xenco	Xenco, its affilia es incurred by th b, but not analyze	tes and subcontractor le client if such losses id. These terms will br	s. It assigns stan are due to circum enforced unless	gnature of this document and relinquishment of samples constitutes a valid purchase order from client eempeny to Xenco, its affiltates and subcontractors. It assigns standard terms and conditions 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 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 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.	ins trol	
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Chain of Custody Record

Eurotins Aenco, Carisbad										=							-		1		!						
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Conistence (NW 00220) Phone: 575-988-3199 Fax: 575-988-3199				ſ																		-	All	America	-		
Client Information (Sub Contract Lab)	Sampler [.]			Lab PM. Kramer, Jessica	r, Jess	sica						Carrier Tracking No(s):	rTrac	king I	4o(s):		1		88 C	COC No: 890-454 1	-						
	Phone:			E-Mail jessica kramer@eurofinset.com	t kram	er@e	urofin	set.cc	ž			State of Origin New Mexico	Mex	Ğ Ü					Page Page	Page Page 1 of 3	of 3						
Company Eurofins Xenco				ZA	Accreditations Required (See note NELAP - Louisiana, NELAP	- Lou	equirec isiana	(See I	۳ ۳	Texas	ß								-068 # qof	Job # 890-1379-1	-9						
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State Zip: TX, 79701																		1.2		D - Nitric Acid E NaHSO4	O4		оро 	P Na2O4S Q - Na2SO3	ដ្ឋទំរ		
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Project Name: Nash 39 Tank Battery	Project # [.] 89000004			VOV6		ACH												ainer		EDTA EDA			N≶	pH 4-5 other (specify)	speci	fy)	
Site.	SSOW#:			Samoli		D/DI_L												of con	Other-	er.							
			Sample Type	Matrix (W=water S=solid,	orm MS/M	ORGFM_28												l Number									
Sample Identification - Client ID (Lab ID)	Sample Date	22 685	÷	- E	A BOADSO	300			2			in de	a she was		and a lot			То	Ĭ	s	pecial Instructions/Note:	al In:	stru	ctio	N/SI	ote:	
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BG01A (890-1379-2)	10/6/21	10 20 Mountain		Solid		×											†	4	nestalli				ĺ				
BG01B (890-1379-3)	10/6/21	10 25 Mountain		Solid		×												20	CARA SEM								
BG01C (890-1379-4)	10/6/21	10 35 Mountain		Solid		×												(يغار)	unin di A								
BG02 (890-1379-5)	10/6/21	10 55 Mountain		Solid		×												4	Mari di T								
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BG03 (890-1379-9)	10/6/21	12 05 Mountain		Solid		×												1	5.1155.33								
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories, 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 instrue attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	blaces the ownership of eing analyzed the san e signed Chain of Cust	f method analy nples must be s ody attesting to	te & accreditatic hipped back to said complican	on compliance the Eurofins X ce to Eurofins	upon ol enco LL Xenco I	LC labo	ontract ratory c	labora r other	instru	This : ctions	sample will be	provi	nent i ded.	s forw Any cl	ardeo 1ange	l unde	er cha	ain-of- 1itatio	-custc)n staf	5. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently fructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC	the Is ould b	aborati ve broj	ory de ught t	o Eun	ofins)	ently Xencc	, LLC
Possible Hazard Identification					San	Sample Disposal (A for Return To Client	le Disposal (A f Return To Client	sal (/	4 fee	may	bea	assessed if san Disposal By Lab	ised sal F	iisa	b mp	es a	□ e z	etaii	tained long Archive For	ee may be assessed if samples are retained longer than 1 month)	er th	an 1	Der 1	nth) Months	h,		
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Cooler Temperature(s) °C and Other Remarks.

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Ver 06/08/2021

Custody Seals Intact. ∆ Yes ∆ No

Custody Seal No

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Chain of Custody Record

Eurofins Xenco. Carlsbad																
1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199	C	hain of	Chain of Custody Record	Rec	ord								- 	🔅 eurofins	Environment Testing America	sting
Client Information (Sub Contract Lab)	Sampler:			Lab PM Kramer, J	Jessica				Carri	Carrier Tracking No(s)	ng No(s)			COC No 890-454 2		
Client Contact: Shipping/Receiving	Phone			E-Mail jessica kr	amer@e	urofinse	et.com		State Nev	State of Origin: New Mexico	0 -			Page Page 2 of 3		
Company Eurofins Xenco				Accreditations Required (See note) NELAP - Louisiana, NELAP	Accreditations Required (See note) NELAP - Louisiana, NELAP	Required (Jisiana,	See note	- Texas					<u> </u>	Job #: 890-1379-1		
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City Midland	TAT Requested (days).	'S).		- 1			\square							A HCL B NaOH	M Hexane	
State Zip TX, 79701													3. GA	D Nitric Acid E NaHSO4	Q Na2SO3	
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Email	WO #												ASS AND AND A	I Ice J DI Water	U Acetone V - MCAA	
Project Name Nash 39 Tank Battery	Project #: 89000004													L-EDA	W pH 4-5 Z other (specify)	
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Sample identification - Cilent ID (Lab ID)	Sample Date		G=grab) BT=Tissue, A=Air	È									Ţ	Special In	Special Instructions/Note	1
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BG04A (890-1379-14)	10/6/21	12 50 Mountain	Solid	a 	×								4			
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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 abore 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 aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	blaces the ownership c eing analyzed the sai ∋ signed Chain of Cus	of method analyte mples must be ship tody attesting to sa	& accreditation con pped back to the Et id complicance to	ipliance upo irofins Xenc Eurofins Xer	on out sub o LLC lab	contract la oratory or	iboratorie other inst	s. This sa ructions w	imple ship rill be prov	oment is f rided. An	orwarded y change	under ch s to accre	ain-of-cu editation	ustody If the labora status should be bro	itory does not currently ought to Eurofins Xenc	» LLC
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Custody Seals Intact. ∆ Yes ∆ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver 06/08/2021

Eurofins Xenco, Carlsbad

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1089 N Canal St	5	Chain of Clietody Record	fouct	ndv D								🔅 eurofins	Environ	Environment Testing
Carlsbad, NM 88220	(ouy Ive									America	
Phone 575-988-3199 Fax 575-988-3199														
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer Jessica				Carrier Tracking No(s)	sking No(s)	800	COC No R90-454 3		
Client Contact:	Phone:			E-Mail					State of Origin	gin	Page.	1e [.]		
Shipping/Receiving				jessic	jessica.kramer@eurofinset.com	Deurofinse	et.com		New Mexico	(ico	Pa	Page 3 of 3		
Company [,]					Accreditations Required (See note):	s Required (See note):				Job	Job #:		
Eurofins Xenco					NELAP - Louisiana NELAP	ouisiana		Texas			89	890-1379-1		
Address	Due Date Requested	ш									PR	Preservation Codes	es	
1211 W Florida Ave, ,	10/13/2021						Analy	rsis Requested	uested					
City: Midland	TAT Requested (days):	/s):		delazzar							ω >	NaOH		ā
State, Zip:									_,,,,-		 p q		P Na204S	ŝ
											 7 7 7	F - MeOH	R Na2SOO3	ς 2 δ
432-704-5440(Tel)	TC .*			2204204/044	Ŵ						 το	G Amchlor H Ascorbic Acid	S - H2SO4	S - H2SO4
Email:	WO #·				No)						 kritter 182	I Ice J - DI Water	U - Acetone V MCAA	ĕ
Project Name Nash 39 Tank Battery	Project #: 89000004				es or						 a sum see	L EDA	VV pH 4-5 Z other (specify)	specify)
Site	SSOW#				ISD (Y						 かいろっにかったる	Other [.]		
		Sample	Sample Type (C=comp.	Matrix (w=water S=solid,	d Filtered form MS/N _ORGFM_2						 al Number			
Sample Identification - Client ID (Lab ID)	Sample Date	ļ		E	Per						 Tot	Special Instructions/Note	struction	s/Note.
	X	X	Preservation Code:	on Code:	Â						X			
BG05B (890-1379-19)	10/6/21	13 35 Mountain		Solid	×						 . در			
BG05C (890-1379-20)	10/6/21	13 45 Mountain		Solid	×						 A.			
BG06 (890-1379-21)	10/6/21	14 30 Mountain		Solid	×						 4			
BG06A (890-1379-22)	10/6/21	14 45 Mountain		Solid	×						 A			
											 an a su Sina a di Sina a di			

Ver 06/08/2021														
		ý	Cooler Temperature(s) °C and Other Remarks	ature(s) °C an	oler Tempera	ç						Custody Seal No	∆ Yes ∆ No	Cust
Company	Date/Time:	Dat			Received by	Re	Company			Date/Time:			ned by:	Relinquished by
Company	Date/Time	Dat			Received by:	Ra	Company			Date/Time:			ned by	Kelinquened by
Company	Date/Time:	Dat	NOF	MAY	Received by	Re	Company			Date/Time 16/8/21				
	pment	Method of Shipment				Time			Date				Empty Kit Relinquished by	Empty
			Requirements	ons/QC Re	Special Instructions/QC	Specia		2	able Rank.	Primary Deliverable Rank. 2		Deliverable Requested I II III, IV Other (specify)	able Requested 1 II	Deliver
Months	Archive For	Disposal By Lab	Dispc	Client	Return To Client								imed	Unconfirmed
nonth)	ee may be assessed if samples are retained longer than 1 month)	sed if samp	nay be asses	эl (Afeen	Sample Disposal (A fe	Samp						ion	Possible Hazard Identification	Possit
ry does not currently ght to Eurofins Xenco LLC	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 laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	nent is forwarde ded Any chang	his sample shipr ons will be provi	iboratories. T other instructi	aboratory or	upon out s enco LLC I Xenco LLC	ation compliance to the Eurofins X ance to Eurofins	alyte & accredit e shipped back to said complic) of method ar amples must t istody attesting	laces the ownership eing analyzed, the s signed Chain of Cu	ofins Xenco LLC p ysis/tests/matrix b to date, return the	Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out su 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 ta attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	ce laboratory accreditations accreditation in the State o immediately If all request	Note Sir maintain attention

Received by OCD: 12/30/2021 4:48:04 PM

Job Number: 890-1379-1

SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1379 List Number: 1 Creator: Olivas, Nathaniel

Login Number: 1379			List Source: Eurofins Xenco, Carlsbad	
List Number: 1				5
Creator: Olivas, Nathaniel				
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			8
Samples were received on ice.	True			
Cooler Temperature is acceptable.	True			9
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			13
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			

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1379 List Number: 2 Creator: Kramer, Jessica

Job Number: 890-1379-1 SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Midland 5 6 7 8 9 10 11 List Creation: 10/11/21 08:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4/2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

iring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 12/30/2021 4:48:04 PM

eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1381-1

Laboratory Sample Delivery Group: 31403236.020.0129 Client Project/Site: Nash 39 Tank Battery

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 10/18/2021 2:27:53 PM Jessica Kramer, Project Manager

(432)704-5440 jessica.kramer@eurofinset.com

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

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

LINKS **Review your project** results through **Total** Access **Have a Question?** Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 2/18/2022 8:58:44 AM

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Laboratory Job ID: 890-1381-1 SDG: 31403236.020.0129

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	22
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Method Summary	30
Sample Summary	31
	32
-	

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Job ID: 890-1381-1 SDG: 31403236.020.0129

Qualifiers

Quantoro		3
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	A	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	40
CFU	Colony Forming Unit	13
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	

Dil Fac **Dilution Factor**

DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin)

MPN Most Probable Number

MQL Method Quantitation Limit NC Not Calculated

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

ND NEG Negative / Absent

POS Positive / Present Practical Quantitation Limit PQL

PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 890-1381-1 SDG: 31403236.020.0129

Job ID: 890-1381-1

Client: WSP USA Inc.

Laboratory: Eurofins Xenco, Carlsbad

Project/Site: Nash 39 Tank Battery

Narrative

Job Narrative 890-1381-1

Receipt

The samples were received on 10/8/2021 8:19 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 1.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9452 and analytical batch 880-9522 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-9438 and analytical batch 880-9428 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9207 and analytical batch 880-9380 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

10/13/21 10:00

10/13/21 10:00

10/13/21 10:00

10/13/21 10:00

10/13/21 10:00

10/13/21 10:00

Prepared

10/13/21 10:00

10/13/21 10:00

Job ID: 890-1381-1 SDG: 31403236.020.0129

Client Sample ID: PH01A

Project/Site: Nash 39 Tank Battery

Date Collected: 10/07/21 09:55 Date Received: 10/08/21 08:19

Sample Depth: 2

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analyzed

10/13/21 19:32

10/13/21 19:32

10/13/21 19:32

10/13/21 19:32

10/13/21 19:32

10/13/21 19:32

Analyzed

10/13/21 19:32

10/13/21 19:32

Matrix: Solid

Solid	
Jona	
	5
Dil Fac	
1	
1 1	
1	0
1	0
Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00880		0.00398	mg/Kg			10/13/21 13:00	1
- Method: 8015 NM - Diesel Range	e Organics (DR	0) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.7		49.9	mg/Kg			10/13/21 15:17	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		10/14/21 09:34	10/14/21 16:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	83.7		49.9	mg/Kg		10/14/21 09:34	10/14/21 16:06	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:34	10/14/21 16:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			10/14/21 09:34	10/14/21 16:06	1
o-Terphenyl	112		70 - 130			10/14/21 09:34	10/14/21 16:06	1
- Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2550		49.9	mg/Kg			10/14/21 16:42	10
lient Sample ID: PH01C						Lab San	nple ID: 890-	1381-2
ate Collected: 10/07/21 10:15							Matri	x: Solid
ate Received: 10/08/21 08:19								
ample Depth: 4	c Compounds (GC)						
ample Depth: 4 Method: 8021B - Volatile Organi		<mark>GC)</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
ample Depth: 4 Method: 8021B - Volatile Organi		· · · · · · · · · · · · · · · · · · ·	RL	Unit mg/Kg	<u>D</u>	Prepared 10/13/21 10:00	Analyzed 10/13/21 19:52	Dil Fac
ample Depth: 4 Method: 8021B - Volatile Organi Analyte	Result	Qualifier			<u>D</u>			Dil Fac
	Result <0.00200	Qualifier U U	0.00200	mg/Kg	<u>D</u>	10/13/21 10:00	10/13/21 19:52	1

ĸg <0.00200 U 0.00200 10/13/21 19:52 o-Xylene mg/Kg 10/13/21 10:00 1 <0.00400 U 0.00400 10/13/21 10:00 10/13/21 19:52 Xylenes, Total mg/Kg 1 Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 10/13/21 10:00 10/13/21 19:52 118 1

Eurofins Xenco, Carlsbad

Client: WSP USA Inc.

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Qualifier

S1+

<0.00199 U

<0.00199 U

0.00249

0.00631

0.00631

%Recovery

<0.00199 U

141

83

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Client Sample Results

Job ID: 890-1381-1 SDG: 31403236.020.0129

Lab Sample ID: 890-1381-2

Matrix: Solid

5

Date Collected: 10/07/21 10:15 Date Received: 10/08/21 08:19

Client Sample ID: PH01C

Project/Site: Nash 39 Tank Battery

Sample Depth: 4

Client: WSP USA Inc.

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	86		70 - 130			10/13/21 10:00	10/13/21 19:52	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			10/13/21 13:00	,
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			10/13/21 15:17	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		10/14/21 09:34	10/14/21 16:28	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/14/21 09:34	10/14/21 16:28	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/14/21 09:34	10/14/21 16:28	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	89		70 - 130			10/14/21 09:34	10/14/21 16:28	
o-Terphenyl	96		70 - 130			10/14/21 09:34	10/14/21 16:28	-
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4260		99.0	mg/Kg			10/14/21 16:49	20
lient Sample ID: PH02						Lab San	nple ID: 890-	1381-3
ate Collected: 10/07/21 10:30							Matri	x: Solic
ate Received: 10/08/21 08:19								
ample Depth: 1								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/13/21 10:00	10/13/21 20:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/13/21 10:00	10/13/21 20:12	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/13/21 10:00	10/13/21 20:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/13/21 10:00	10/13/21 20:12	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/13/21 10:00	10/13/21 20:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/13/21 10:00	10/13/21 20:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			10/13/21 10:00	10/13/21 20:12	1
1,4-Difluorobenzene (Surr)	82		70 - 130			10/13/21 10:00	10/13/21 20:12	1
- Method: Total BTEX - Total B1	FEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/13/21 13:00	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.4		50.0	mg/Kg			10/13/21 15:17	1

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<50.0 U *1

51.4

%Recovery

<50.0 U

92

99

4580

Result Qualifier

Qualifier

Dil Fac

Client Sample Results

RL

50.0

50.0

50.0

RL

101

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

10/14/21 09:34

10/14/21 09:34

10/14/21 09:34

Prepared

10/14/21 09:34

10/14/21 09:34

Prepared

Job ID: 890-1381-1 SDG: 31403236.020.0129

Client Sample ID: PH02

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Sample Depth: 1

(GRO)-C6-C10

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Sample Depth: 4

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client Sample ID: PH02C

Date Collected: 10/07/21 10:55

Date Received: 10/08/21 08:19

Analyte

Date Collected: 10/07/21 10:30 Date Received: 10/08/21 08:19

Lab Sample ID: 890-1381-3 Matrix: Solid

Analyzed

10/14/21 16:49

10/14/21 16:49

10/14/21 16:49

Analyzed

10/14/21 16:49

10/14/21 16:49

Analyzed

10/14/21 16:56

5

Dil Fac 20 Lab Sample ID: 890-1381-4 Matrix: Solid

Dil Fac 1 1

Dil Fac 1

Dil Fac

Dil Fac 1

1 1 Dil Fac 1 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00199	U	0.00199	mg/Kg		10/13/21 10:00	10/13/21 20:33
Toluene	<0.00199	U	0.00199	mg/Kg		10/13/21 10:00	10/13/21 20:33
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/13/21 10:00	10/13/21 20:33
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/13/21 10:00	10/13/21 20:33
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/13/21 10:00	10/13/21 20:33
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/13/21 10:00	10/13/21 20:33
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	129		70 - 130			10/13/21 10:00	10/13/21 20:33
1,4-Difluorobenzene (Surr)	75		70 - 130			10/13/21 10:00	10/13/21 20:33
Method: Total BTEX - Total B	TEX Calculation						
		Qualifier	RL	Unit	D	Prepared	Analyzed
Analyte		Qualifier U	RL 0.00398	Unit mg/Kg	D	Prepared	Analyzed
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Rat Analyte Total TPH	Result <0.00398 nge Organics (DR)	U O) (GC) Qualifier			<u>D</u>	Prepared Prepared	Analyzed 10/13/21 13:00 Analyzed 10/13/21 15:17
Analyte Total BTEX Method: 8015 NM - Diesel Rat Analyte	nge Organics (DR <	U O) (GC) Qualifier U	0.00398 RL	mg/Kg Unit		<u>·</u>	10/13/21 13:00 Analyzed

Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	10/14/21 09:34	10/14/21 17:11	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	10/14/21 09:34	10/14/21 17:11	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	%Recovery 89	Qualifier	Limits		Prepared 10/14/21 09:34	Analyzed	Dil Fac
		Qualifier					Dil Fac 1 1

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		Clien	t Sample Re	sults				
Client: WSP USA Inc.							Job ID: 890	
Project/Site: Nash 39 Tank Battery						SL	G: 31403236.0	20.0129
Client Sample ID: PH02C						Lab San	n <mark>ple ID: 890-</mark>	1381-4
Date Collected: 10/07/21 10:55							Matri	ix: Solid
Date Received: 10/08/21 08:19								
Sample Depth: 4								
_ Method: 300.0 - Anions, Ion Chro	matagraphy	Solublo						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3150		99.2	mg/Kg		·	10/14/21 17:04	20
Client Sample ID: PH03						Lab San	nple ID: 890-	1381-5
Date Collected: 10/07/21 12:20								x: Solid
Date Received: 10/08/21 08:19								
Sample Depth: 1								
_	_							
Method: 8021B - Volatile Organic					_	D	A	D
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		10/13/21 09:16	10/13/21 18:51	1
Toluene	<0.00200		0.00200	mg/Kg		10/13/21 09:16	10/13/21 18:51	1
Ethylbenzene	<0.00200		0.00200	mg/Kg		10/13/21 09:16	10/13/21 18:51	1
m-Xylene & p-Xylene	<0.00399		0.00399	mg/Kg		10/13/21 09:16	10/13/21 18:51	1
o-Xylene	<0.00200		0.00200	mg/Kg		10/13/21 09:16	10/13/21 18:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/13/21 09:16	10/13/21 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			10/13/21 09:16	10/13/21 18:51	1
1,4-Difluorobenzene (Surr)	86		70 - 130			10/13/21 09:16	10/13/21 18:51	1
– Method: Total BTEX - Total BTE>	Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			10/13/21 16:28	1
 Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/13/21 15:17	1
– Method: 8015B NM - Diesel Rang	ne Organics (D							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	mg/Kg		10/14/21 09:34	10/14/21 17:32	1
(GRO)-C6-C10 Diasal Pango Organics (Over	<49.9		49.9	mg/Kg		10/14/21 09:34	10/14/21 17:32	1
Diesel Range Organics (Over C10-C28)	<49.9	0	49.9	iiig/Kg		10/14/21 09.34	10/14/21 17.32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:34	10/14/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			10/14/21 09:34	10/14/21 17:32	1
o-Terphenyl	92		70 - 130			10/14/21 09:34	10/14/21 17:32	1
 Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	• • • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

RL

0.00202

0.00202

Unit

mg/Kg

mg/Kg

D

Prepared

10/14/21 10:45

10/14/21 10:45

Job ID: 890-1381-1 SDG: 31403236.020.0129

Client Sample ID: PH03C

Project/Site: Nash 39 Tank Battery

Date Collected: 10/07/21 12:45 Date Received: 10/08/21 08:19

Sample Depth: 4

Analyte

Benzene

Toluene

Client: WSP USA Inc.

SDG: 31403236.020.012

Lab Sample ID: 890-1381-6 Matrix: Solid

Analyzed

10/16/21 15:39

10/16/21 15:39

: 5010

Dil Fac

1

1

Client Sample ID: PH04A Date Collected: 10/07/21 13:05						Lab Sar	nple ID: 890- Matri	1381-7 x: Solid
_						Lab Sar	nple ID: 890-	1381-7
_			-					4004 -
Chloride	10900		249				10/14/21 01:19	50
Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Terphenyl	88		70 - 130			10/14/21 09:34	10/14/21 17:54	1
1-Chlorooctane	87		70 - 130			10/14/21 09:34	10/14/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/14/21 09:34	10/14/21 17:54	1
C10-C28)								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		10/14/21 09:34	10/14/21 17:54	1
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		10/14/21 09:34	10/14/21 17:54	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang								
Total TPH	<49.0	U	49.0	mg/Kg			10/13/21 15:17	1
	Result <49.8	Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range			51	11-14		Durant	A	D!!
_								
Total BTEX	<0.00403	U	0.00403	mg/Kg		·	10/18/21 15:08	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
– Method: Total BTEX - Total BTEX	Colculation							
1,4-Difluorobenzene (Surr)	98		70 - 130			10/14/21 10:45	10/16/21 15:39	1
4-Bromofluorobenzene (Surr)	101		70 - 130			10/14/21 10:45	10/16/21 15:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Aylones, rotar	-0.00+00	0	0.00400	iiig/itg		10/14/21 10:40	10/10/21 10:00	
Xylenes, Total	<0.00202		0.00403	mg/Kg		10/14/21 10:45	10/16/21 15:39	1
o-Xylene	<0.00202		0.00202	mg/Kg		10/14/21 10:45	10/16/21 15:39	1
m-Xylene & p-Xylene	< 0.00403		0.00403	mg/Kg		10/14/21 10:45	10/16/21 15:39	1
Ethylbenzene	< 0.00202		0.00202	mg/Kg		10/14/21 10:45	10/16/21 15:39	

o-Xylene <0.00199 U 0.00199 10/16/21 15:59 mg/Kg 10/14/21 10:45 1 Xylenes, Total <0.00398 U 0.00398 mg/Kg 10/14/21 10:45 10/16/21 15:59 1 Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 4-Bromofluorobenzene (Surr) 89 70 - 130 10/14/21 10:45 10/16/21 15:59 1

Client Sample Results

Limits

70 - 130

RL

RL

49.9

0.00398

Unit

Unit

mg/Kg

mg/Kg

Job ID: 890-1381-1 SDG: 31403236.020.0129

Client Sample ID: PH04A

%Recovery Qualifier

Result Qualifier

Result Qualifier

<49.9 U

99

<0.00398 U

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

Date Collected: 10/07/21 13:05 Date Received: 10/08/21 08:19

Project/Site: Nash 39 Tank Battery

Sample Depth: 2

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Client: WSP USA Inc.

Lab	Sample	ID:	890-1381-7

Analyzed

10/16/21 15:59

Analyzed

10/18/21 15:08

Analyzed

10/13/21 15:17

Lab Sample ID: 890-1381-8

Matrix: Solid

Prepared

10/14/21 10:45

Prepared

Prepared

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

1

1

1

5

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

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

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		10/14/21 09:34	10/14/21 18:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		10/14/21 09:34	10/14/21 18:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/14/21 09:34	10/14/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			10/14/21 09:34	10/14/21 18:37	1
o-Terphenyl	87		70 - 130			10/14/21 09:34	10/14/21 18:37	1

Method: 300.0 - Anions, Ion Chrom	natography - 3	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4280		100	mg/Kg			10/14/21 01:24	20

Client Sample ID: PH04C

Date Collected: 10/07/21 13:15 Date Received: 10/08/21 08:19 Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:45	10/16/21 16:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:45	10/16/21 16:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:45	10/16/21 16:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/14/21 10:45	10/16/21 16:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/14/21 10:45	10/16/21 16:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/14/21 10:45	10/16/21 16:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			10/14/21 10:45	10/16/21 16:20	1
1,4-Difluorobenzene (Surr)	84		70 - 130			10/14/21 10:45	10/16/21 16:20	1
- Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/18/21 15:08	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<50.0 U *1

<50.0 U

<50.0 U

89

91

14400

Result Qualifier

Qualifier

%Recovery

Client Sample Results

RL

50.0

50.0

50.0

RL

250

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

10/14/21 09:34

10/14/21 09:34

10/14/21 09:34

Prepared

10/14/21 09:34

10/14/21 09:34

Prepared

Job ID: 890-1381-1
SDG: 31403236.020.0129

Client Sample ID: PH04C

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Sample Depth: 4

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Date Collected: 10/07/21 13:15 Date Received: 10/08/21 08:19

Lab Sample ID: 890-1381-8 Matrix: Solid

Analyzed

10/14/21 18:59

10/14/21 18:59

10/14/21 18:59

Analyzed

10/14/21 18:59

10/14/21 18:59

Analyzed

10/14/21 01:30

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

50

5
8
9

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Job ID: 890-1381-1 SDG: 31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-1374-A-1-G MSD	Matrix Spike Duplicate	113	81		
890-1374-A-1-I MS	Matrix Spike	121	85		6
890-1381-1	PH01A	141 S1+	83		
890-1381-2	PH01C	118	86		
890-1381-3	PH02	128	82		
890-1381-4	PH02C	129	75		9
890-1381-5	PH03	74	86		U
890-1381-5 MS	PH03	129	82		0
890-1381-5 MSD	PH03	112	114		3
890-1381-6	PH03C	101	98		
890-1381-7	PH04A	89	99		
890-1381-8	PH04C	88	84		
890-1383-A-21-C MS	Matrix Spike	106	115		
890-1383-A-21-D MSD	Matrix Spike Duplicate	231 S1+	90		
LCS 880-9327/1-A	Lab Control Sample	112	85		
LCS 880-9367/1-A	Lab Control Sample	91	90		
LCS 880-9452/1-A	Lab Control Sample	89	107		
LCSD 880-9327/2-A	Lab Control Sample Dup	118	83		
LCSD 880-9367/2-A	Lab Control Sample Dup	99	84		
LCSD 880-9452/2-A	Lab Control Sample Dup	88	100		
MB 880-9327/5-A	Method Blank	110	71		
MB 880-9367/5-A	Method Blank	101	100		
MB 880-9452/5-A	Method Blank	101	109		
MB 880-9532/5-A	Method Blank	102	107		

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-6806-A-1-B MS	Matrix Spike	93	88
880-6806-A-1-C MSD	Matrix Spike Duplicate	93	89
890-1381-1	PH01A	105	112
890-1381-2	PH01C	89	96
890-1381-3	PH02	92	99
890-1381-4	PH02C	89	92
890-1381-5	PH03	89	92
890-1381-6	PH03C	87	88
890-1381-7	PH04A	85	87
890-1381-8	PH04C	89	91
LCS 880-9438/2-A	Lab Control Sample	97	94
LCSD 880-9438/3-A	Lab Control Sample Dup	85	83
MB 880-9438/1-A	Method Blank	85	90

1CO = 1-Chlorooctane

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Prep Type: Total/NA
Surrogate Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery OTPH = o-Terphenyl Job ID: 890-1381-1 SDG: 31403236.020.0129

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9327/5-A

Matrix: Solid Analysis Batch: 9368

Analysis Batch: 9368							Prep Bate	:h: 9327
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		10/12/21 16:16	10/13/21 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/12/21 16:16	10/13/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/12/21 16:16	10/13/21 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/12/21 16:16	10/13/21 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/12/21 16:16	10/13/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/12/21 16:16	10/13/21 12:41	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			10/12/21 16:16	10/13/21 12:41	1
1,4-Difluorobenzene (Surr)	71		70 - 130			10/12/21 16:16	10/13/21 12:41	1

Lab Sample ID: LCS 880-9327/1-A Matrix: Solid

Analysis Batch: 9368

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08846		mg/Kg		88	70 - 130	
Toluene	0.100	0.08931		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09418		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09808		mg/Kg		98	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-9327/2-A

Matrix: Solid

Analysis Batch: 9368							Pre	p Batch	: 9327
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09373		mg/Kg		94	70 - 130	6	35
Toluene	0.100	0.09698		mg/Kg		97	70 - 130	8	35
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130	8	35
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130	8	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-1374-A-1-G MSD

Matrix: Solid

Analysis Batch: 9368									Pre	p Batch	: 9327
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0990	0.09429		mg/Kg		95	70 ₋ 130	11	35
Toluene	<0.00198	U	0.0990	0.09461		mg/Kg		96	70 - 130	6	35

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

SDG: 31403236.020.0129

Client Sample ID: Method Blank

Job ID: 890-1381-1

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1381-1 SDG: 31403236.020.0129

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

	-1-G MSD							Snent	Sample		ix Spike E rep Type:	
Analysis Batch: 9368											Prep Bat	ch: 9327
	Sample	Sam	ple	Spike	MSD	MSD				%Red	C.	RPD
Analyte	Result	Qual	ifier	Added	Result	Qualifier	Unit	I	D %Rec	: Limit	s RP	D Limi
Ethylbenzene	<0.00198	U		0.0990	0.09854		mg/Kg		100	70 - 1	30	0 3
m-Xylene & p-Xylene	<0.00396	U		0.198	0.2040		mg/Kg		103	70 - 1	30	1 3
o-Xylene	<0.00198	U		0.0990	0.1031		mg/Kg		104	70_1	30	1 3
-		MSD										
Surrogate	%Recovery	Qual	ifier	Limits								
4-Bromofluorobenzene (Surr)	113			70 - 130								
1,4-Difluorobenzene (Surr)	81			70 - 130								
Lab Sample ID: 890-1374-A	-1-I MS								Clie	nt Samn	le ID: Mat	rix Snike
Matrix: Solid									oner		rep Type:	
Analysis Batch: 9368											Prep Bat	
Analysis Datch. 5000	Sample	Sam	nle	Spike	MS	MS				%Red		
Analyte	Result		•	Added		Qualifier	Unit	1	D %Rec			
Benzene	<0.00198			0.100	0.08471		mg/Kg		84			
Toluene	<0.00198			0.100	0.08921		mg/Kg		89			
Ethylbenzene	< 0.00198			0.100	0.09814		mg/Kg		98			
m-Xylene & p-Xylene	< 0.00396			0.201	0.2025		mg/Kg		101			
o-Xylene	<0.00198			0.100	0.1018		mg/Kg		101			
0-Xylene	<0.00130	0		0.100	0.1010		mg/rtg		101	70-1	50	
	MS	MS										
Surrogate	%Recovery	Qual	ifier	Limits								
4-Bromofluorobenzene (Surr)	121			70 - 130								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	121 85			70 - 130 70 - 130								
1,4-Difluorobenzene (Surr)	85								Client	t Sample	D: Meth	od Blan
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936	85								Client		D: Methor	
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid	85								Client		rep Type:	Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid	85	мв	МВ						Client			Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391	85 37/5-A		MB Qualifier			Unit		D	Client	P	rep Type:	Total/NA ch: 9367
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte	85 67/5-A 	esult		70 - 130 			a		Prepared	Pi	rep Type: Prep Bat	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene	85 67/5-A 	esult 0200	Qualifier	70 - 130 		mg/Kg		_ 1	Prepared 0/13/21 09:	P 1 A 10/1	rep Type: Prep Bat Malyzed 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene	85 67/5-A 	esult 0200 0200	Qualifier U	70 - 130 		mg/Kg mg/Kg	g	1	Prepared 0/13/21 09: 0/13/21 09:	P 10/1 10/1 10/1	rep Type: Prep Bat Malyzed 13/21 18:29	Total/NA ch: 9367
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene	85 57/5-A 	esult 0200 0200 0200	Qualifier U U U	70 - 130 		mg/Kg mg/Kg mg/Kg	g g	- 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09:	P1 :16 10/1 :16 10/1 :16 10/1	Trep Type: Prep Bat Analyzed 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	85 57/5-A 	esult 0200 0200 0200 0200 0400	Qualifier U U U U	70 - 130 		mg/Kg mg/Kg mg/Kg mg/Kg	g g	- 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09:	P 1 A 10/1 16 10/1 16 10/1 16 10/1 16 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	85 57/5-A	esult 0200 0200 0200 0200 0400 0200	Qualifier U U U U U U	70 - 130 		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09:	P 1 A 10/1 16 10/1 16 10/1 16 10/1 16 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	85 57/5-A	esult 0200 0200 0200 0400 0200 0400	Qualifier U U U U U U U U	70 - 130 		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09:	P 1 A 10/1 16 10/1 16 10/1 16 10/1 16 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	85 57/5-A	esult 0200 0200 0200 0400 0200 0400 <i>MB</i>	Qualifier U U U U U U U U MB	70 - 130 		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09:	P 1 P 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	85 57/5-A	esult 0200 0200 0200 0400 0200 0400 0400 <i>MB</i>	Qualifier U U U U U U U U	70 - 130 		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09:	P :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 .16 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00200		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: Prepared 0/13/21 09:	P 1 A 10 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	85 57/5-A	esult 0200 0200 0200 0400 0200 0400 0400 <i>MB</i>	Qualifier U U U U U U U U MB	70 - 130 		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09:	P 1 A 10 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1 116 10/1	rep Type: Prep Bat 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00200		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: Prepared 0/13/21 09: 0/13/21 09:	P :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1	rep Type: Prep Bat 3/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29	Total/NA ch: 9367
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-93	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00200		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: Prepared 0/13/21 09: 0/13/21 09:	P :16 10/1 :16 10/1	rep Type: Prep Bat 3/21 18:29 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-93 Matrix: Solid	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00200		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: Prepared 0/13/21 09: 0/13/21 09:	P :16 10/1 :16 10/1	rep Type: Prep Bat 3/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 ab Contro rep Type:	Total/N/ ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.002000 0.002000000 0.002000 0.00200 0.00200 0.00200 0.00200 0		mg/Kg mg/Kg mg/Kg mg/Kg	g g g	- 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: 0/13/21 09: Prepared 0/13/21 09: 0/13/21 09:	P :16 10/1 :16 10/1	Type: Prep Bat Analyzed 13/21 18:29 13/21 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 18:29 18:29 1	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-93 Matrix: Solid Analysis Batch: 9391	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.002000 0.002000000 0.00200 0.00200 0.00200 0.		mg/Kg mg/Kg mg/Kg mg/Kg	9 9 9 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09:	Pi :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/1 :16 10/2 :16 10/2	Analyzed 13/21 18:29	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-93 Matrix: Solid Analysis Batch: 9391 Analyte	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.00400 0.002000 0.002000 0.002000 0.002000 0.002000 0.00200 0.	Result	mg/Kg mg/Kg mg/Kg mg/Kg	9 9 9 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: ent Samp D %Rec	P 1 4 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1 16 10/1 1	Image Image Analyzed 3/21 13/21 18:29 13/21<	Total/NA ch: 9367 Dil Fac
1,4-Difluorobenzene (Surr) Lab Sample ID: MB 880-936 Matrix: Solid Analysis Batch: 9391 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-93 Matrix: Solid Analysis Batch: 9391	85 57/5-A	esult 0200 0200 0400 0400 0400 0400 MB overy 101	Qualifier U U U U U U U U MB	70 - 130 RL 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 0.00400 0.00400 0.00400 0.002000 0.002000000 0.00200 0.00200 0.00200 0.		mg/Kg mg/Kg mg/Kg mg/Kg	9 9 9 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared 0/13/21 09: 0/13/21 09:	P_{1} $(16) = 10/1$	rep Type: Prep Bat 3/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 18:29 13/21 38:29 </td <td>Total/NA ch: 9367 Dil Fac</td>	Total/NA ch: 9367 Dil Fac

92

80

70 - 130

70 - 130

Ethylbenzene

m-Xylene & p-Xylene

0.09196

0.1590

mg/Kg

mg/Kg

0.100

0.200

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Lab Sample ID: LCS 880-9367/1-A

Job ID: 890-1381-1 SDG: 31403236.020.0129

Client Sample ID: Lab Control Sample

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

								Prep T	ype: Tot	tal/NA
								Pre	p Batch:	: <mark>936</mark> 7
		Spike	LCS	LCS				%Rec.		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
		0.100	0.08118		mg/Kg		81	70 - 130		
1.00	1.00									
		1								
	Qualifier									
90		70 - 730								
2-A					Clier	nt San	nole ID:	Lab Contro	I Sample	e Dur
		Spike	LCSD	LCSD						RPI
		-			Unit	D	%Rec		RPD	Limi
					mg/Kg		78	70 - 130	4	35
		0.100	0.09925				99		8	35
		0.100						70 - 130	9	35
										3
										3
									-	-
LCSD	LCSD									
%Recovery	Qualifier	Limits								
99		70 - 130								
84		70 - 130								
								Prep T	ype: Tot	tal/N/
Sample	Sample	Spike	MS	MS				%Rec.		
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
<0.00200	U F1	0.101	0.04938	F1	mg/Kg		49	70 - 130		
<0.00200	U	0.101	0.09252		mg/Kg		92	70 - 130		
<0.00200	U	0.101	0.09947		mg/Kg		97	70 - 130		
<0.00399	U	0.202	0.1832		mg/Kg		91	70 - 130		
<0.00200	U F1	0.101	0.09200		mg/Kg		91	70 - 130		
-	Qualifier									
82		70 - 130								
)										
	. .	Spike	Men	MSD				%Rec.	p Batch:	8367 RPC
Sample	Sample	JUINE	WOD	MOD				/01100.		
Sample	-	-	Posult	Qualifier	Unit	n	%Pac	Limite	ppn	limi
Result	Qualifier	Added		Qualifier	Unit	D	%Rec 70	Limits		
Result <0.00200	Qualifier U F1	Added	0.07031	Qualifier	mg/Kg	<u> </u>	70	70 - 130	35	35
Result <0.00200 <0.00200	Qualifier U F1 U	Added 0.100 0.100	0.07031 0.08628	Qualifier	mg/Kg mg/Kg	<u>D</u>	70 86	70 ₋ 130 70 - 130	35 7	35 35
Result <0.00200	Qualifier U F1 U	Added	0.07031	Qualifier	mg/Kg	<u> </u>	70	70 - 130	35	Limit 35 35 35 35
	%Recovery 91 90 2-A <i>LCSD</i> %Recovery 99 84 Sample Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.002000 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.0020000000000	91 90 91 90 2-A LCSD LCSD Wallifier 99 84 Sample Result Qualifier 99 84 Sample Result Qualifier 0.00200 U F1 <0.00200	Added 0.100 LCS LCS %Recovery Qualifier Limits 91 70 - 130 90 70 - 130 90 70 - 130 90 70 - 130 2-A Spike Added 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.200 0.100 0.100 0.100 0.101 0.101 0.101 84 70 - 130 84 Spike Result Qualifier Added <0.00200	Added Result 0.100 0.08118 LCS LCS %Recovery Qualifier Limits 91 70 - 130 90 70 - 130 90 70 - 130 90 70 - 130 90 70 - 130 2-A Spike LCSD Added Result 0.100 0.07841 0.100 0.1010 0.200 0.1748 0.100 0.1010 0.200 0.1748 0.100 0.08367 LCSD LCSD %Recovery Qualifier Limits 99 70 - 130 84 70 - 130 84 70 - 130 84 70 - 130 84 0.101 0.04938 <0.00200	Added Result Qualifier 0.100 0.08118 0.08118 LCS LCS Qualifier Limits 91 70 - 130 0 90 70 - 130 0 Spike LCSD LCSD LCSD 2-A Spike LCSD LCSD 2-A Spike LCSD LCSD 0.100 0.007841 0.100 0.09925 0.100 0.1010 0.00925 0.100 0.100 0.1010 0.008367 0.0020 LCSD LCSD Milliner Milliner 99 70 - 130 0.000 0.08367 Sample Sample Spike MS MS 99 70 - 130 0.04338 F1 <0.00200	Added Result Qualifier Unit 0.100 0.08118 mg/Kg LCS LCS Unitimits mg/Kg 91 70 - 130 70 - 130 90 70 - 130 70 - 130 90 70 - 130 70 - 130 22.A Clier Added Result Qualifier Unit 0.100 0.07841 mg/Kg 0.100 0.07841 mg/Kg 0.100 0.1010 mg/Kg 0.100 0.08367 mg/Kg Kecovery Qualifier Limits 99 70 - 130 Result Qualifier Unit <0.00200	Added Result Qualifier Unit D LCS LCS	Added Result Qualifier Unit D %Rec LCS LCS	Spike LCS LCS Wite Limits 0.100 0.08118 Unit D %Rec. Limits Spike LCS Unit D %Rec Limits 91 70.130 0.08118 Unit D %Rec Limits 91 70.130 0 70.130 Prept Result Client Sample ID: Lab Contro 90 70.130 Prept Result Qualifier Unit D %Rec. Prept Prept Spike LCSD LCSD Viewer Prept Spike LCSD LCSD Viewer Unit D %Rec. Limits TO.130 No No	Added Result Qualifier Unit D %Rec Limits 2.CS LCS LCS Limits 70.130 70.130 90 70.130 Client Sample ID: Lab Control Sample Prep Type: To Prep Batch Prep Type: To Prep Batch Prep Type: To Prep Batch 4 Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.07841 mg/Kg 9 70.130 Rec Limits RPD 0.100 0.07841 mg/Kg 9 70.130 Rec Limits RPD Added Rec Limits RPD ARec Limits RPD ARec Limits 70.130 8 RPD ARec Batch ARec Limits 70.130 9 70.130 3 LCSD LCSD Client Sample ID: Prep Type: To Prep Batch Yes Y

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

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

Lab Sample ID: 890-1381-5 MSD Matrix: Solid

Analysis Batch: 9391

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-9452/5-A Matrix: Solid

Analysis Batch: 9522

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
< 0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
<0.00400	U	0.00400	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
<0.00200	U	0.00200	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
<0.00400	U	0.00400	mg/Kg		10/14/21 10:45	10/16/21 13:28	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
101		70 - 130			10/14/21 10:45	10/16/21 13:28	1
109		70 - 130			10/14/21 10:45	10/16/21 13:28	1
	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <i>MB</i> % <i>Recovery</i> 101	Result Qualifier <0.00200	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

Lab Sample ID: LCS 880-9452/1-A Matrix: Solid

Analysis Batch: 9522

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1109		mg/Kg		111	70 - 130	
Toluene	0.100	0.1159		mg/Kg		116	70 - 130	
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	0.200	0.2200		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-9452/2-A Matrix: Solid

Analysis Batch: 9522

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1045		mg/Kg		105	70 - 130	6	35
Toluene			0.100	0.1099		mg/Kg		110	70 - 130	5	35
Ethylbenzene			0.100	0.1111		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2172		mg/Kg		109	70 - 130	1	35
o-Xylene			0.100	0.1149		mg/Kg		115	70 - 130	1	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	88		70 - 130								

4-Bromofluorobenzene (Surr)	

Job ID: 890-1381-1 SDG: 31403236.020.0129

	•	
45	10/16/21 13:28	1
45	10/16/21 13:28	1
	Di Lah Cantral	Comula
Ie IL	D: Lab Control	Sample

Prep Type: Total/NA

Prep Batch: 9452

Client Sample Prep Type: Total/NA Prep Batch: 9452

Client Sample ID: Lab Control Sample Dup

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Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

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

Lab Sample ID: LCSD 880-94	52/2-A					CI	ient San	nple ID: L	ab Control Sa	
Matrix: Solid									Prep Type:	Total/NA
Analysis Batch: 9522									Prep Ba	tch: 9452
	LCSD	1000								
Surma mata			Lincita							
Surrogate 1,4-Difluorobenzene (Surr)	%Recovery	Quaimer	Limits 70 - 130							
	100		70 - 130							
Lab Sample ID: 890-1383-A-2	1-C MS							Client S	Sample ID: Mat	trix Spike
Matrix: Solid									Prep Type:	Total/NA
Analysis Batch: 9522									Prep Ba	tch: 9452
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.0990	0.04929	F1	mg/Kg		49	70 - 130	
Toluene	<0.00200	U F1	0.0990	0.05318	F1	mg/Kg		54	70 - 130	
Ethylbenzene	<0.00200	U F1 F2	0.0990	0.05533	F1	mg/Kg		55	70 - 130	
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1097	F1	mg/Kg		55	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.0990	0.07653		mg/Kg		76	70 - 130	
	MS	MS								
Surrogate	%Recovery		Limits							
4-Bromofluorobenzene (Surr)			70 - 130							
1,4-Difluorobenzene (Surr)	100		70 - 130 70 - 130							
Matrix: Solid Analysis Batch: 9522										tch: 9452
	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits RI	PD Limit
Benzene	<0.00200	U F1 F2	0.100	0.01519		mg/Kg		15	70 - 130 1	06 35
Toluene	<0.00200		0.100	0.04473	F1	mg/Kg		45	70 - 130	17 35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.02272		mg/Kg		22	70 - 130	84 35
m-Xylene & p-Xylene	<0.00401	U F1	0.201	0.1159		mg/Kg		58	70 - 130	5 35
o-Xylene	<0.00200	U F1 F2	0.100	0.02061	F1 F2	mg/Kg		19	70 - 130 1	15 35
	MSD	MSD								
Surrogate	%Recovery		Limits							
4-Bromofluorobenzene (Surr)	231		70 - 130							
1,4-Difluorobenzene (Surr)	90		70 - 130							
Lab Sample ID: MB 880-9532	/ 5-A							Client Sa	ample ID: Meth	
Matrix: Solid									Prep Type:	
Analysis Batch: 9522									Prep Ba	tch: 9532
	_	MB MB	_							
Analyte		esult Qualifier		L	Unit			Prepared	Analyzed	Dil Fac
Benzene	<0.0	0200 U	0.0020	0	mg/K	g	10/1	15/21 13:57	10/16/21 01:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/15/21 13:57	10/16/21 01:24	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			10/15/21 13:57	10/16/21 01:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/15/21 13:57	10/16/21 01:24	1

Eurofins Xenco, Carlsbad

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Job ID: 890-1381-1 SDG: 31403236.020.0129

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

	1-A								Client Sa	ample ID: I		
Matrix: Solid										Prep T		
Analysis Batch: 9428		в мв								Pre	рватс	h: 9438
Analyte		b MB It Qualifier	RL		Unit		D		repared	Analyz	~d	Dil Fac
Gasoline Range Organics					0mit mg/K	<u> </u>			4/21 09:34	Analyz		1 Dil Fac
(GRO)-C6-C10	-00.	0 0	50.0		mg/ix	9		10/1	4/21 03.34	10/14/21	12.04	'
Diesel Range Organics (Over	<50.	0 U	50.0		mg/K	g		10/1	4/21 09:34	10/14/21 1	12:54	1
C10-C28)												
Oll Range Organics (Over C28-C36)	<50.	0 U	50.0		mg/K	g		10/1	4/21 09:34	10/14/21 1	12:54	1
	М	в мв										
Surrogate	%Recover		Limits					P	repared	Analyz	ed	Dil Fac
1-Chlorooctane	8		70 - 130				-		4/21 09:34	10/14/21		1
o-Terphenyl	9	0	70 - 130					10/1	4/21 09:34	10/14/21	12:54	1
Lab Sample ID: LCS 880-9438/	/ 2-A						CI	ient	Sample	ID: Lab Co		
Matrix: Solid												otal/NA
Analysis Batch: 9428											p Batc	h: <mark>94</mark> 38
			Spike		LCS					%Rec.		
Analyte			Added		Qualifier	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics			1000	980.1		mg/Kg			98	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over			1000	1069		mg/Kg			107	70 _ 130		
C10-C28)			1000							10-100		
Surrogate	LCS LC %Recovery Qu	.s ıalifier	Limits									
1-Chlorooctane			70 - 130									
o-Terphenyl	94		70 - 130									
	01		/0 - /00									
Lab Sample ID: LCSD 880-943												
	8/3-A					Cli	ent S	Sam	ple ID: L	ab Contro	l Samp	ole Dup
Matrix: Solid	8/3-A					Cli	ent S	Sam	ple ID: L		-	
Matrix: Solid Analysis Batch: 9428	8/3-A					Cli	ent S	Sam	ple ID: L	Prep T	ype: T	otal/NA
	8/3-A		Spike	LCSD	LCSD	Cli	ent S	Sam	ple ID: L	Prep T	ype: T	ole Dup otal/NA h: 9438 RPD
	8/3-A		Spike Added		LCSD Qualifier	Cli	ent \$	Sam	whether whethe	Prep T Prej	ype: T	otal/NA h: 9438
Analysis Batch: 9428 Analyte Gasoline Range Organics			-		Qualifier		ent \$		-	Prep T Prej %Rec.	ype: To p Batc	otal/NA h: 9438 RPD
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10	.8/3-A		Added	Result 774.1	Qualifier	Unit mg/Kg	ent \$		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batc RPD 23	otal/NA h: 9438 RPD Limit
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over			Added	Result	Qualifier	Unit	ent S		%Rec	Prep T Prej %Rec. Limits	ype: To p Batc RPD	otal/NA h: 9438 RPD Limit 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10			Added	Result 774.1	Qualifier	Unit mg/Kg	ent \$		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batc RPD 23	otal/NA h: 9438 RPD Limit
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			Added	Result 774.1	Qualifier	Unit mg/Kg	ent S		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batc RPD 23	otal/NA h: 9438 RPD Limit 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD LC %Recovery Qu		Added 1000 1000 <i>Limits</i>	Result 774.1	Qualifier	Unit mg/Kg	ent S		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batc RPD 23	otal/NA h: 9438 RPD Limit 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD LC %Recovery Qu 85		Added 1000 1000 Limits 70 - 130	Result 774.1	Qualifier	Unit mg/Kg	ent \$		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batc RPD 23	otal/NA h: 9438 RPD Limit 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD LC %Recovery Qu		Added 1000 1000 <i>Limits</i>	Result 774.1	Qualifier	Unit mg/Kg	ent S		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batc RPD 23	otal/NA h: 9438 RPD Limit 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCSD LC %Recovery Qu 85 83		Added 1000 1000 Limits 70 - 130	Result 774.1	Qualifier	Unit mg/Kg	ent \$		%Rec 77 87	Prep T %Rec. Limits 70 - 130 70 - 130	ype: To p Batcl RPD 23 20	otal/NA h: 9438 RPD Limit 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I	LCSD LC %Recovery Qu 85 83		Added 1000 1000 Limits 70 - 130	Result 774.1	Qualifier	Unit mg/Kg	ent \$		%Rec 77 87	Prep T %Rec. Limits 70 - 130 70 - 130	ype: To p Batcl 23 20	h: 9438 RPD Limit 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I Matrix: Solid	LCSD LC %Recovery Qu 85 83		Added 1000 1000 Limits 70 - 130	Result 774.1	Qualifier	Unit mg/Kg	ent \$		%Rec 77 87	Prep T %Rec. Limits 70 - 130 70 - 130 Sample ID: Prep T	ype: To p Batcl 23 20 : Matrix ype: To	otal/NA h: 9438 RPD Limit 20 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I	LCSD LC %Recovery Qu 85 83	alifier _	Added 1000 1000 Limits 70 - 130	Result 774.1 874.0	Qualifier	Unit mg/Kg	ent (%Rec 77 87	Prep T %Rec. Limits 70 - 130 70 - 130 Sample ID: Prep T	ype: To p Batcl 23 20 : Matrix ype: To	h: 9438 RPD Limit 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I Matrix: Solid	LCSD LC %Recovery Qu 85 83 B MS	mple	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 774.1 874.0	Qualifier *1	Unit mg/Kg	ent (%Rec 77 87	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID: Prep T Prep T	ype: To p Batcl 23 20 : Matrix ype: To	otal/NA h: 9438 RPD Limit 20 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I Matrix: Solid Analysis Batch: 9428	LCSD LC %Recovery Qu 85 83 B MS Sample Sa	mple	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 774.1 874.0	Qualifier *1	mg/Kg	ent \$	<u>D</u>	%Rec 77 87 Client S	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 190 70 - 190 70 - 190 70 - 190	ype: To p Batcl 23 20 : Matrix ype: To	otal/NA h: 9438 RPD Limit 20 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I Matrix: Solid Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10	LCSD LC %Recovery Qu 85 83 B MS Sample Sa Result Qu <49.9 U	mple	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	Result 774.1 874.0 MS Result	Qualifier *1	Unit mg/Kg mg/Kg	ent \$	<u>D</u>	%Rec 77 87 Client \$	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To p Batcl 23 20 : Matrix ype: To	otal/NA h: 9438 RPD Limit 20 20 20
Analysis Batch: 9428 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-6806-A-1-I Matrix: Solid Analysis Batch: 9428 Analyte Gasoline Range Organics	LCSD LC %Recovery Qu 85 83 B MS Sample Sa Result Qu	mple	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	Result 774.1 874.0 MS Result	Qualifier *1	Unit mg/Kg mg/Kg	ent \$	<u>D</u>	%Rec 77 87 Client \$	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To p Batcl 23 20 : Matrix ype: To	otal/NA h: 9438 RPD Limit 20 20 20 x Spike otal/NA

Job ID: 890-1381-1 SDG: 31403236.020.0129

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Chloride

Mothod: 8015B NM Discol Pango Organics (DPO) (GC) (Continued)

Lab Sample ID: 880-6806-A-	1-B MS							Client	Sample ID:		
Matrix: Solid									Prep Ty		
Analysis Batch: 9428									Prep	Batch	: 9438
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	88		70 - 130								
Lab Sample ID: 880-6806-A-	1-C MSD						Client S	ample IC): Matrix Spi	ike Dup	olicate
Matrix: Solid									Prep Ty	pe: To	tal/NA
Analysis Batch: 9428									Prep	Batch	: <mark>94</mark> 38
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U *1	1000	932.1		mg/Kg		89	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	935.1		mg/Kg		92	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	89		70 - 130								
lethod: 300.0 - Anions, I	on Chromat	ography									
		ography									
Lab Sample ID: MB 880-9207	7/1-A							Client S	ample ID: N	lethod	Blank
Matrix: Solid									Prep T	Type: S	oluble
Analysis Batch: 9380											
		MB MB									
Analyte	D	esult Qualifier		RL	Unit		D P	repared	Analyze	d	Dil Fac

_									
Lab Sample ID: LCS 880-9207/2-A					Client	Sample	ID: Lab C	ontrol Sa	ample
Matrix: Solid							Prep	Type: S	oluble
Analysis Batch: 9380									
-	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	249.6		mg/Kg		100	90 - 110		
Lab Sample ID: LCSD 880-9207/3-A				Clie	nt Sam	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid							Prep	Type: S	oluble
Analysis Batch: 9380									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	250.6		mg/Kg		100	90 _ 110	0	20

5.00

<5.00 U

Spike	LCS	LCS				%Rec.		
Added	Result	Qualifier	Unit	D	%Rec	Limits		
 250	249.6		mg/Kg		100	90 - 110	 	

mg/Kg

250 250.6 mg/Kg 100 90 - 110 0 **Client Sample ID: Matrix Spike** Lab Sample ID: 880-6964-A-1-B MS Matrix: Solid Prep Type: Soluble Analysis Batch: 9380

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	17200	F1	5040	24840	F1	mg/Kg		151	90 - 110	

10/13/21 22:53

QC Sample Results

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1381-1 SDG: 31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-6964-A-1-0	C MSD						Client S	ample IC): Matrix S		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 9380											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added	Result		Unit	D	%Rec	Limits	RPD	Limit
Chloride	17200	F1	5040	24900	F1	mg/Kg		152	90 - 110	0	20
Lab Sample ID: MB 880-9288/1	- A							Client S	Sample ID:		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 9418											
		MB MB									
Analyte	R	esult Qualifier		RL	Unit		D F	Prepared	Analyz	ed	Dil Fac
Chloride	<	<5.00 U		5.00	mg/K	g			10/14/21	13:36	1
Lab Sample ID: LCS 880-9288/	2-A						Clien	t Sample	D: Lab C	ontrol S	ample
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 9418											
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	236.5		mg/Kg		95	90 _ 110		
Lab Sample ID: LCSD 880-928	8/3-A					CI	ient San	nple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 9418											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	254.5		mg/Kg		102	90 _ 110	7	20
Lab Sample ID: 890-1379-A-18	-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 9418											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	5650		5020	10840		mg/Kg		103	90 _ 110		
Lab Sample ID: 890-1379-A-18	-C MSD						Client S	ample IE): Matrix S	oike Dur	olicate
Matrix: Solid								-		Type: S	
Analysis Batch: 9418											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Australia			-								
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

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Job ID: 890-1381-1 SDG: 31403236.020.0129

GC VOA

Prep Batch: 9327

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-1381-1	PH01A	Total/NA	Solid	5035	
890-1381-2	PH01C	Total/NA	Solid	5035	
890-1381-3	PH02	Total/NA	Solid	5035	
390-1381-4	PH02C	Total/NA	Solid	5035	
MB 880-9327/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9327/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9327/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1374-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1374-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
rep Batch: 9367					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1381-5	PH03	Total/NA	Solid	5035	
MB 880-9367/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9367/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9367/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1381-5 MS	PH03	Total/NA	Solid	5035	
890-1381-5 MSD	PH03	Total/NA	Solid	5035	
nalysis Batch: 9368					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1381-1	PH01A	Total/NA	Solid	8021B	932
890-1381-2	PH01C	Total/NA	Solid	8021B	932
890-1381-3	PH02	Total/NA	Solid	8021B	932
890-1381-4	PH02C	Total/NA	Solid	8021B	932
MB 880-9327/5-A	Method Blank	Total/NA	Solid	8021B	932
LCS 880-9327/1-A	Lab Control Sample	Total/NA	Solid	8021B	932
LCSD 880-9327/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	932
890-1374-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	932
890-1374-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	932
nalysis Batch: 9374					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
890-1381-1	PH01A	Total/NA	Solid	Total BTEX	
890-1381-2	PH01C	Total/NA	Solid	Total BTEX	
890-1381-3	PH02	Total/NA	Solid	Total BTEX	
890-1381-4	PH02C	Total/NA	Solid	Total BTEX	
nalysis Batch: 9391					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
390-1381-5	PH03	Total/NA	Solid	8021B	936
MB 880-9367/5-A	Method Blank	Total/NA	Solid	8021B	936
LCS 880-9367/1-A	Lab Control Sample	Total/NA	Solid	8021B	936
LCSD 880-9367/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	936
890-1381-5 MS	PH03	Total/NA	Solid	8021B	936

Analysis Batch: 9398

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1381-5	PH03	Total/NA	Solid	Total BTEX	

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Job ID: 890-1381-1 SDG: 31403236.020.0129

GC VOA

Prep Batch: 9452

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1381-6	PH03C	Total/NA	Solid	5035	
390-1381-7	PH04A	Total/NA	Solid	5035	
390-1381-8	PH04C	Total/NA	Solid	5035	
MB 880-9452/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-9452/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-9452/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
390-1383-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1383-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 9522		Prop Turpo	BZ -4viv	M-4b od	Prop Batch
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 390-1381-6	PH03C	Total/NA	Solid	8021B	9452
Lab Sample ID 390-1381-6 390-1381-7	PH03C PH04A	Total/NA Total/NA	Solid	8021B 8021B	9452 9452
Lab Sample ID 390-1381-6 390-1381-7 390-1381-8	PH03C PH04A PH04C	Total/NA Total/NA Total/NA	Solid Solid Solid	8021B 8021B 8021B	9452 9452 9452 9452
Lab Sample ID 390-1381-6 390-1381-7 390-1381-8 MB 880-9452/5-A	PH03C PH04A PH04C Method Blank	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B	9452 9452 9452 9452 9452
Lab Sample ID 390-1381-6 390-1381-7 390-1381-8 MB 880-9452/5-A MB 880-9532/5-A	PH03C PH04A PH04C Method Blank Method Blank	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B 8021B	9452 9452 9452 9452 9452 9532
Lab Sample ID 390-1381-6 390-1381-7 390-1381-8 MB 880-9452/5-A MB 880-9532/5-A _CS 880-9452/1-A	PH03C PH04A PH04C Method Blank	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B	9452 9452 9452 9452 9452
Lab Sample ID 390-1381-6 390-1381-7 390-1381-8 MB 880-9452/5-A MB 880-9532/5-A	PH03C PH04A PH04C Method Blank Method Blank	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B 8021B	9452 9452 9452 9452 9452 9532
Lab Sample ID 390-1381-6 390-1381-7 390-1381-8 MB 880-9452/5-A MB 880-9532/5-A _CS 880-9452/1-A	PH03C PH04A PH04C Method Blank Method Blank Lab Control Sample	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B 8021B 8021B	9452 9452 9452 9452 9452 9532 9452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9532/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9796

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1381-6	PH03C	Total/NA	Solid	Total BTEX	
890-1381-7	PH04A	Total/NA	Solid	Total BTEX	
890-1381-8	PH04C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9387

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1381-1	PH01A	Total/NA	Solid	8015 NM	
890-1381-2	PH01C	Total/NA	Solid	8015 NM	
890-1381-3	PH02	Total/NA	Solid	8015 NM	
890-1381-4	PH02C	Total/NA	Solid	8015 NM	
890-1381-5	PH03	Total/NA	Solid	8015 NM	
890-1381-6	PH03C	Total/NA	Solid	8015 NM	
890-1381-7	PH04A	Total/NA	Solid	8015 NM	
890-1381-8	PH04C	Total/NA	Solid	8015 NM	

Analysis Batch: 9428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1381-1	PH01A	Total/NA	Solid	8015B NM	9438
890-1381-2	PH01C	Total/NA	Solid	8015B NM	9438
890-1381-3	PH02	Total/NA	Solid	8015B NM	9438
890-1381-4	PH02C	Total/NA	Solid	8015B NM	9438
890-1381-5	PH03	Total/NA	Solid	8015B NM	9438

QC Association Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

GC Semi VOA (Continued)

Analysis Batch: 9428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1381-6	PH03C	Total/NA	Solid	8015B NM	9438
890-1381-7	PH04A	Total/NA	Solid	8015B NM	9438
890-1381-8	PH04C	Total/NA	Solid	8015B NM	9438
MB 880-9438/1-A	Method Blank	Total/NA	Solid	8015B NM	9438
LCS 880-9438/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9438
LCSD 880-9438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9438
880-6806-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	9438
880-6806-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9438

Prep Batch: 9438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1381-1	PH01A	Total/NA	Solid	8015NM Prep	-
890-1381-2	PH01C	Total/NA	Solid	8015NM Prep	
890-1381-3	PH02	Total/NA	Solid	8015NM Prep	
890-1381-4	PH02C	Total/NA	Solid	8015NM Prep	
890-1381-5	PH03	Total/NA	Solid	8015NM Prep	
890-1381-6	PH03C	Total/NA	Solid	8015NM Prep	
890-1381-7	PH04A	Total/NA	Solid	8015NM Prep	
890-1381-8	PH04C	Total/NA	Solid	8015NM Prep	
MB 880-9438/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9438/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6806-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6806-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 9207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1381-6	PH03C	Soluble	Solid	DI Leach	
890-1381-7	PH04A	Soluble	Solid	DI Leach	
890-1381-8	PH04C	Soluble	Solid	DI Leach	
MB 880-9207/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9207/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9207/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6964-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6964-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 9288

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1381-1	PH01A	Soluble	Solid	DI Leach	
890-1381-2	PH01C	Soluble	Solid	DI Leach	
890-1381-3	PH02	Soluble	Solid	DI Leach	
890-1381-4	PH02C	Soluble	Solid	DI Leach	
890-1381-5	PH03	Soluble	Solid	DI Leach	
MB 880-9288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1379-A-18-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1379-A-18-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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8 9

Job ID: 890-1381-1 SDG: 31403236.020.0129 Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1381-1

SDG: 31403236.020.0129

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HPLC/IC

Analysis Batch: 9380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1381-6	PH03C	Soluble	Solid	300.0	9207
890-1381-7	PH04A	Soluble	Solid	300.0	9207
890-1381-8	PH04C	Soluble	Solid	300.0	9207
MB 880-9207/1-A	Method Blank	Soluble	Solid	300.0	9207
LCS 880-9207/2-A	Lab Control Sample	Soluble	Solid	300.0	9207
LCSD 880-9207/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9207
880-6964-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	9207
880-6964-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9207

Analysis Batch: 9418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1381-1	PH01A	Soluble	Solid	300.0	9288	
890-1381-2	PH01C	Soluble	Solid	300.0	9288	
890-1381-3	PH02	Soluble	Solid	300.0	9288	
890-1381-4	PH02C	Soluble	Solid	300.0	9288	
890-1381-5	PH03	Soluble	Solid	300.0	9288	
MB 880-9288/1-A	Method Blank	Soluble	Solid	300.0	9288	
LCS 880-9288/2-A	Lab Control Sample	Soluble	Solid	300.0	9288	
LCSD 880-9288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9288	
890-1379-A-18-B MS	Matrix Spike	Soluble	Solid	300.0	9288	
890-1379-A-18-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9288	

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Job ID: 890-1381-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

SDG: 31403236.020.0129

Lab Sample ID: 890-1381-1

Lab Sample ID: 890-1381-2

Lab Sample ID: 890-1381-3

Lab Sample ID: 890-1381-4

Lab Chronicle

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Client Sample ID: PH01A Date Collected: 10/07/21 09:55

Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9327	10/13/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	9368	10/13/21 19:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9374	10/13/21 13:00	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		10	9418	10/14/21 16:42	СН	XEN MID

Client Sample ID: PH01C Date Collected: 10/07/21 10:15

Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9327	10/13/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	9368	10/13/21 19:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9374	10/13/21 13:00	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		20	9418	10/14/21 16:49	СН	XEN MID

Client Sample ID: PH02

Date Collected: 10/07/21 10:30

Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9327	10/13/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	9368	10/13/21 20:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9374	10/13/21 13:00	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		20	9418	10/14/21 16:56	СН	XEN MID

Client Sample ID: PH02C Date Collected: 10/07/21 10:55 Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9327	10/13/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	9368	10/13/21 20:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9374	10/13/21 13:00	KL	XEN MID

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Matrix: Solid

Job ID: 890-1381-1

Matrix: Solid

Matrix: Solid

SDG: 31403236.020.0129

Lab Sample ID: 890-1381-4

Lab Chronicle

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery

Client Sample ID: PH02C

Date Collected: 10/07/21 10:55 Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		20	9418	10/14/21 17:04	СН	XEN MID

Client Sample ID: PH03 Date Collected: 10/07/21 12:20

Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9367	10/13/21 09:16	MR	XEN MID
Total/NA	Analysis	8021B		1	9391	10/13/21 18:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9398	10/13/21 16:28	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 17:32	AJ	XEN MID
Soluble	Leach	DI Leach			9288	10/12/21 10:28	СН	XEN MID
Soluble	Analysis	300.0		20	9418	10/14/21 17:11	CH	XEN MID

Client Sample ID: PH03C

Date Collected: 10/07/21 12:45 Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	9522	10/16/21 15:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			9207	10/11/21 12:12	СН	XEN MID
Soluble	Analysis	300.0		50	9380	10/14/21 01:19	СН	XEN MID

Client Sample ID: PH04A

Date Collected: 10/07/21 13:05 Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	9522	10/16/21 15:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 18:37	AJ	XEN MID

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Lab Sample ID: 890-1381-6 Matrix: Solid

Lab Sample ID: 890-1381-7

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Matrix: Solid

Lab Chronicle

Matrix: Solid

Job ID: 890-1381-1

SDG: 31403236.020.0129

Lab Sample ID: 890-1381-7

Lab Sample ID: 890-1381-8

Client Sample ID: PH04A Date Collected: 10/07/21 13:05 Date Received: 10/08/21 08:19

Project/Site: Nash 39 Tank Battery

Client: WSP USA Inc.

Date Received	. 10/00/21 00.1	9						
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9207	10/11/21 12:12	СН	XEN MID
Soluble	Analysis	300.0		20	9380	10/14/21 01:24	СН	XEN MID

Client Sample ID: PH04C Date Collected: 10/07/21 13:15 Date Received: 10/08/21 08:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9452	10/14/21 10:45	KL	XEN MID
Total/NA	Analysis	8021B		1	9522	10/16/21 16:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	9796	10/18/21 15:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	9387	10/13/21 15:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9438	10/14/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9428	10/14/21 18:59	AJ	XEN MID
Soluble	Leach	DI Leach			9207	10/11/21 12:12	СН	XEN MID
Soluble	Analysis	300.0		50	9380	10/14/21 01:30	СН	XEN MID

Laboratory References:

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

Matrix: Solid

		Accreditation/C	ertification Summary		
Client: WSP USA Inc. Project/Site: Nash 39 T	Fank Battery			Job ID: 890-1381-1 SDG: 31403236.020.0129	2
Laboratory: Eurof					
Unless otherwise noted, all a	analytes for this laboratory	were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-21-22	06-30-22	5
The following analytes	are included in this report	, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of	ffer certification.	-			
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

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Method Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1381-1 SDG: 31403236.020.0129

lethod	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B 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
01 Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Nash 39 Tank Battery Job ID: 890-1381-1 SDG: 31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1381-1	PH01A	Solid	10/07/21 09:55	10/08/21 08:19	2	
890-1381-2	PH01C	Solid	10/07/21 10:15	10/08/21 08:19	4	
890-1381-3	PH02	Solid	10/07/21 10:30	10/08/21 08:19	1	5
890-1381-4	PH02C	Solid	10/07/21 10:55	10/08/21 08:19	4	
890-1381-5	PH03	Solid	10/07/21 12:20	10/08/21 08:19	1	
890-1381-6	PH03C	Solid	10/07/21 12:45	10/08/21 08:19	4	
890-1381-7	PH04A	Solid	10/07/21 13:05	10/08/21 08:19	2	
890-1381-8	PH04C	Solid	10/07/21 13:15	10/08/21 08:19	4	
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						1
						1

Receive	ed by	<u>OCL</u>): 1			4:48	:04	PM																								Page 128 of 132
\bigcirc		Un UN	Relinquished by:	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from <u>client company to Xenco, its affiliates and subcontractors. It assigns standard terms</u> and conditions of <u>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.</u>	Circle Method(s	Total 200.7 / 6010			-0	П	-		П		-	T	Sample Identification	Sample Custody Seals	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	X
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			ature)	d purchase c y responsibi of \$5 for eacl	TCLP / SPLP 6010: 8RCRA	13PPM Te	2	-	4	Ņ	4	1	4'	1'	4'	2'	d Depth	IS:	Ġ	F 00	ter ID	ce: Yes	Due Date:	Rush:	Routine	Turn Around	Email: Alexis.Castro@wsp.com Tacoma.Morrissey@wsp.com	City, S	Address:	Comp	Bill to:	Chain of Custody Houston.TX (281) 240-4200 Dallas.TX (214) 902-0300 San Antonio.TX (210) 509-3334 Midland.TX (432-704-5440) EL Paso.TX (915)585-3443 Lubbock.TX (806)794-1296 Hobbs.NM (575-392-7550) Phoenix.AZ (480-355-0900) Atlanta.GA (770-449-8800) Tampa.FL (81
				ity for ar sample	0: 8R(Texas 11	\square										pth		2			No			9	und	.Castro	City, State ZIP:	SS:	Company Name:	Bill to: (if different)) 240-42 2-704-54 ⁹ hoenix,/
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Chain of Custody Record

eurofins

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Carlsbad NM 88220				usiony vecord	, ecc																 To 17	Environment resting	Runs
Phone: 575-988-3199 Fax. 575-988-3199	Sampler.			I AK DM	ž							5				1		1					
Client Information (Sub Contract Lab)	2			Krar	Kramer Jessica	essica						$\vdash_{\overline{i}}$		Cannor Fracking Ivo(s).	- Part	,			890-45	890-454 1			
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Eurofins Xenco						Accreditations Required (See note) NELAP - Louisiana NELAP	Requi	na N	ee not	,	Texas								Дор	Job # [.] 890-1381-1			
Address 1211 W Florida Ave	Due Date Requested 10/14/2021	ä							Ana	7 I	is R	Pou	Requested	2	J				Pre	Preservation Codes	des		
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State, Zip. TX 79701						TPH										<u> </u>		26	moc	E - NaHSO4	0.00	Na2O4S Na2SO3	
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Project Name: Nash 39 Tank Battery	Project # 890000004				and the second sec				D) BT									liners	<u> </u>	EDTA EDA	N≶	other (specify)	
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PH02 (890-1381-3)	10/7/21	10 30 Mountain		Solid		×	×	×	×	×			\rightarrow						errestelford b				
PH02C (890-1381-4)	10/7/21	10 55 Mountain		Solid		×	×	×	×	<u> </u>								-					
PH03 (890-1381-5)	10/7/21	12 20 Mountain		Solid		×	×	×	×	×									<u></u>				
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Nore Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix/being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership o being analyzed the sa le signed Chain of Cus	of method, ana mples must be tody attesting :	lyte & accredit shipped back to said complic	ation compliand to the Eurofins ance to Eurofir	te upon Xenco Is Xenco	out sut LLC lat o LLC.	orator	ct labo / or oth	ratorie 1er ins	is. Th tructio	is san ns will	tple sh be pr	iipmer ovided	t is for . Any	warde chanç	es to	ler ch accre	ain-of- ditatio	custo n stati	by If the labor us should be br	atory o	does not currently t to Eurofins Xenc	o LLC
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Ver 06/08/2021

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1381 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

Job Number: 890-1381-1

SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1381 List Number: 2 Creator: Kramer, Jessica Job Number: 890-1381-1

SDG Number: 31403236.020.0129

List Source: Eurofins Xenco, Midland List Creation: 10/11/21 08:46 AM

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	True		
The cooler or samples do not appear to have been compromised or tampered with.	True		8
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		9
Cooler Temperature is recorded.	True	2.4/2.9	
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		13
Sample containers have legible labels.	True		14
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	69760
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

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