District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2133445985
District RP	
Facility ID	
Application ID	

## **Release Notification**

### **Responsible Party**

			•	·	•	
••				OGRID 5	OGRID 5380	
Contact Name Shelby Pennington				Contact Te	Contact Telephone 281-723-9353	
Contact email shelby.g.pennington@exxonmobil.com			mobil.com	Incident #	‡ (assigned by OCD)	
			Rd Bldg 5, Midlar	nd, Texas, 79707		
			Location	of Release So	ource	
Latitude 32.1	5083			Longitude	-103.97126	
			(NAD 83 in dec	imal degrees to 5 decim	imal places)	
Site Name C	Corral Canyo	on 10 East		Site Type	Tank Battery	
Date Release				API# (if app		
Unit Letter	Section	Township	Range	Coun	nty	
В	10	25S	29E	Eddy	dy	
Surface Owner				Volume of I	Release c justification for the volumes provided below)	
Crude Oil		Volume Release		calculations of specific	Volume Recovered (bbls)	
× Produced	Water	Volume Release	d (bbls) 10.64		Volume Recovered (bbls) 5.00	
Is the concentration of total dissolved so in the produced water >10,000 mg/l?		( )	☐ Yes ☐ No			
Condensat	te	Volume Release	d (bbls)		Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units		units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ease Internal retained	l corrosion caused I for remediation p	a 6" pipe to release ourposes.	e fluids into contain	inment and onto pad. A third-party contractor has been	

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		- 0			

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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	N/A	
19.15.29.7(A) NMAC?		
☐ Yes 🗷 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	r unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
★ All free liquids and red	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
NA		
		emediation immediately after discovery of a release. If remediation
C 1		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti:	ications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		COVID CO. II.
Printed Name: Adrian Ba	Aker	Title: SSHE Coordinator
Signature:	trian Daju	Date:
email:adrian.baker@exx	conmobil.com	Telephone: 432-236-3808
		F
OCD Only		
Received by: Rar	nona Marcus	Date: 12/1/2021
		·

Location:	Corral Canyon 10 East		
Spill Date:	11/17/2021		
	Area 1		
Approximate A	rea =	5.61	cu.ft.
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced Water = 1.			bbls
	Area 2		
Approximate A	rea =	6338.00	sq. ft.
Average Saturation (or depth) of spill = 2.00 inch		inches	
Average Porosity Factor = 0.03			
	,		
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced Water = 9.64 bbls			bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00 bbls	
Total Produced Water =	10.64 bbls	
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00 bbls	
Total Produced Water =	5.00 bbls	

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

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

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

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

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

CONDITIONS

Action 64215

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	64215
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	12/1/2021

tate of New Mexico Incident ID NAPI

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### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ 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 <b>not</b> on an exploration, development, production, or storage site?	☐ Yes X 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.		
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>		

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

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Adrian Baker	Title: Environmental Coordinator				
Signature:Clobian Baks	Date: 02/11/2022				
email: <u>adrian.baker@exxonmobil.com</u>	Telephone: <u>432-236-3808</u>				
OCD Only					
Received by:	Date:				

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Incident ID	NAPP2133445985
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.						
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>						
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation					
	roduction equipment where remediation could cause a major facility					
○ Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:Adrian Baker	Title: Environmental Coordinator					
Signature:adrian.baker@exxonmobil.com	Date:02/11/2022 Telephone:432-236-3808					
OCD Only						
Received by:	Date:					
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved						
Signature: Jennifer Nobiui	Date: 04/20/2022					



WSP USA

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

February 10, 2022

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

RE: Deferral Request
Corral Canyon 10 East
Incident Number NAPP2133445985
Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling, and excavation activities at the Corral Canyon 10 East (Site) in Unit B, Section 10, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil resulting from a release of produced water at the Site by safely excavating impacted soil to the extent possible based on the Site conditions and as allowed by XTO safety policy. Based on field observations, excavation activities, and soil sample laboratory analytical results, XTO is submitting this Deferral Request, describing remediation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2133445985 until the Site is reconstructed or the well pad is abandoned.

#### RELEASE BACKGROUND

On November 17, 2021, internal corrosion of a 6-inch pipe resulted in the release of approximately 10.64 barrels (bbls) of produced water into containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 30, 2021. The release was assigned Incident Number NAPP2133445985.

#### 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 greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During May 2021, WSP installed a soil boring (C-4525) within 0.5 miles of the Site utilizing a truckmounted hollow-stem auger rig. Soil boring C-4525 was drilled to a depth of 110 feet bgs. A WSP



geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The location of the borehole is approximately 353 feet southwest of the site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an intermittent arroyo, located approximately 926 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

#### SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On December 21, 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 two preliminary assessment soil samples (SS01 and SS02) within the accessible areas of release extent from a depth of approximately 0.5 feet bgs, to assess the lateral extent of the impacted soil. The remaining areas of the release extent were beneath or immediately surrounding active pipelines and production equipment where remediation would require major facility deconstruction (Photo 1). The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.



The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that chloride concentrations exceeded the Closure Criteria; benzene, BTEX, TPH-GRO/TPH-DRO and TPH concentrations were compliant with the Closure Criteria. Based on visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples, excavation and delineation activities were warranted.

#### **EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS**

Between January 12, 2022 and January 13, 2022, WSP personnel were at the Site to oversee excavation and delineation activities.

Impacted soil was excavated from the accessible areas of the release extent as indicated by visible staining, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a backhoe, transport vehicle, and hydrovac. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Excavations were completed to a depth of 1-foot bgs in areas that were accessible by backhoe and hydro-vacuum. Excavation of the remaining release areas was limited by the presence of aboveground piping, active production equipment, steel tank battery containments, and buried active pipelines (Figure 3). XTO safety policy restricts excavation of soil within 2 feet of active production equipment and pipelines.

Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples, FS01 through FS16, were collected at a depth of 1-foot bgs from the floor of the excavations. Due to the shallow depth of the excavations, the floor samples were representative of the excavation sidewalls. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extents and excavation soil sample locations are depicted on Figure 3. The combined excavation extents measured approximately 3,260 square feet. An estimated 121 cubic yards of soil were removed from the excavations. The soil was properly disposed of at the licensed R360 disposal facility in Hobbs, New Mexico.



Laboratory analytical results for excavation floor samples FS01 through FS16 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

#### **DELINEATION ACTIVITIES AND ANALYTICAL RESULTS**

On January 12, 2022, after completion of excavation activities, WSP personnel oversaw assessment activities to delineate the release areas that were not accessible for excavation. Potholes PH01 through PH07 were advanced via backhoe to depths ranging from 1 foot to 2 feet bgs around the release extent to delineate the lateral and vertical extent of impacted soil left in place beneath and around active pipelines and production equipment. Two discrete delineation soil samples were collected from each pothole at depths ranging from 1 foot to 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were documented on a lithologic/soil sampling log, which are included in Attachment 2. The potholes and delineation soil sample locations are depicted on Figure 4. Photographic documentation was conducted during the Site visits. A photographic log is included as Attachment 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH07 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, all final delineation samples were compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4

#### **DEFERRAL REQUEST**

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the release extent. The impacted soil left in-place is limited to the areas immediately beneath and around surface pipelines and active production equipment, where remediation would require a major facility deconstruction.

A total of 121 cubic yards of impacted soil were excavated from the Site; however, impacted soil was left in place immediately surrounding and beneath active production equipment and pipelines. The impacted soil remaining in place is delineated vertically by excavation floor samples FS01 through FS16 and laterally by delineation soil samples PH01/PH01A through PH07/PH07A. A maximum of 138 cubic yards of impacted soil remains in place beneath the active pipelines and production equipment, assuming a maximum 1-foot depth based on the excavation and delineation soil samples listed above, that were compliant with the Closure Criteria. The deferral request area is shown on the attached Figure 5.

XTO requests to complete final remediation during any future major construction/alteration or



final plugging and abandonment, whichever occurs first. WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was confirmed to be greater than 100 feet bgs, the majority of the released fluids were recovered during initial response activities, and the impacted soil remaining in place is limited to the area immediately beneath and around surface pipelines and active production equipment.

Based on the presence of surface pipelines and active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2133445985.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365.

Sincerely,

WSP USA Inc.

Hadlie Green

Gladie Freen

Assistant Consultant, Geologist

Aimee Cole

Sr. Consultant, Environmental Scientist

cc: Shelby Pennington, XTO

Adrian Baker, XTO

Bureau of Land Management

#### Attachments:

Figure 1 Site Location Map

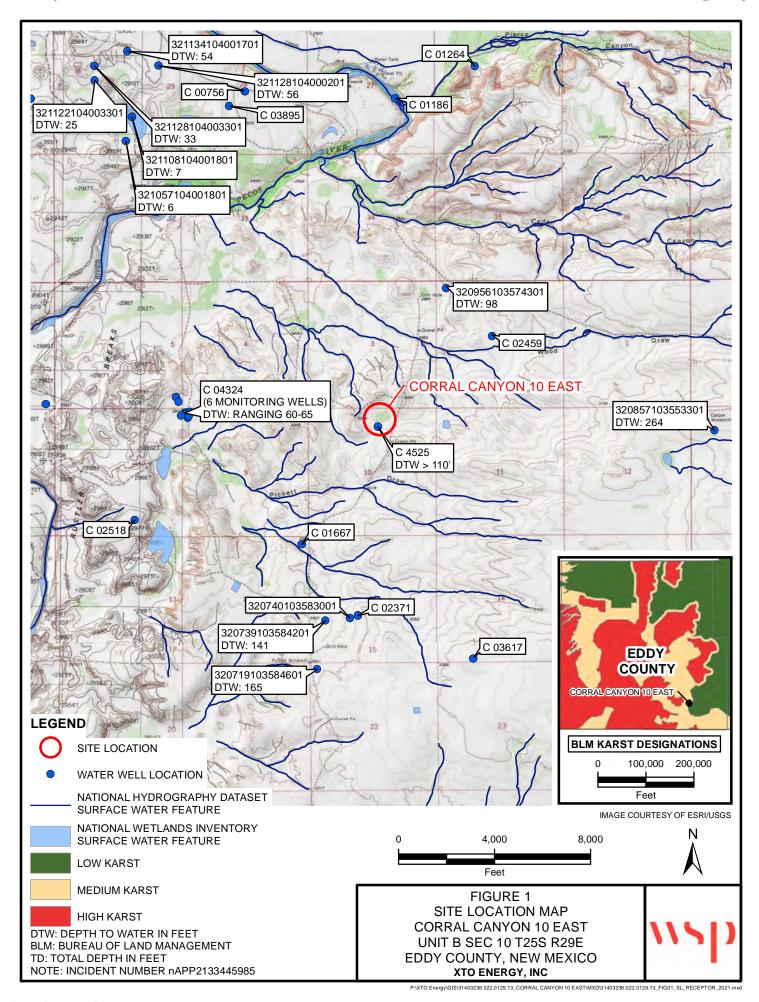
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Figure 4 Delineation Soil Sample Locations

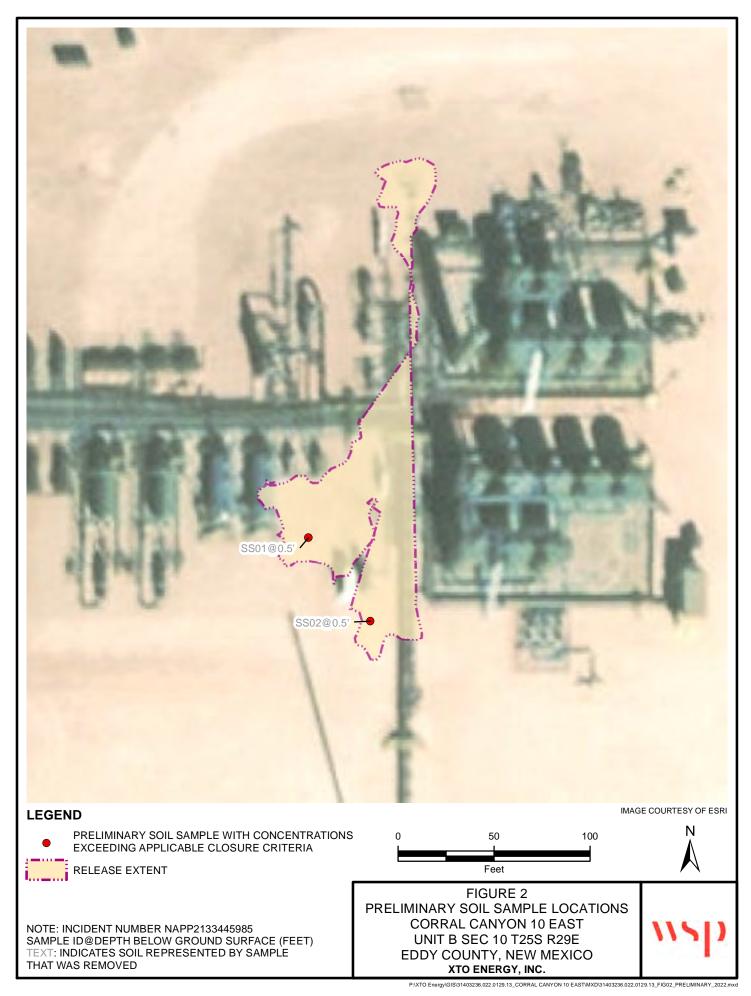
Figure 5 Deferral Area

Table 1 Soil Analytical Results
Attachment 1 Well Record and Log
Attachment 2 Lithologic/Sampling Logs

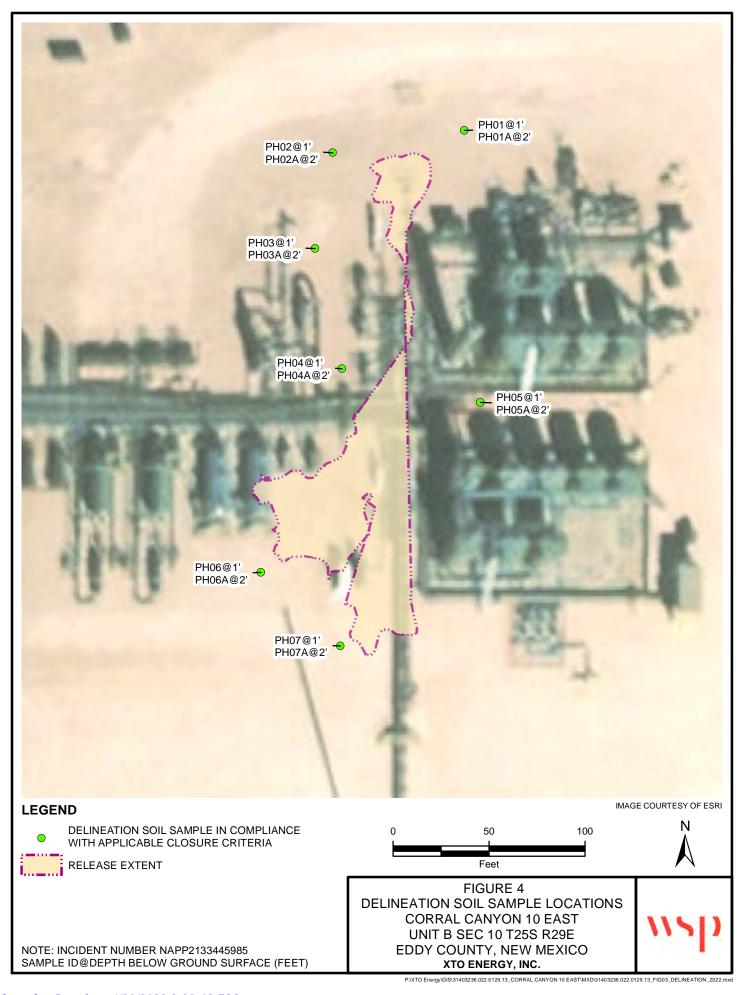
Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports









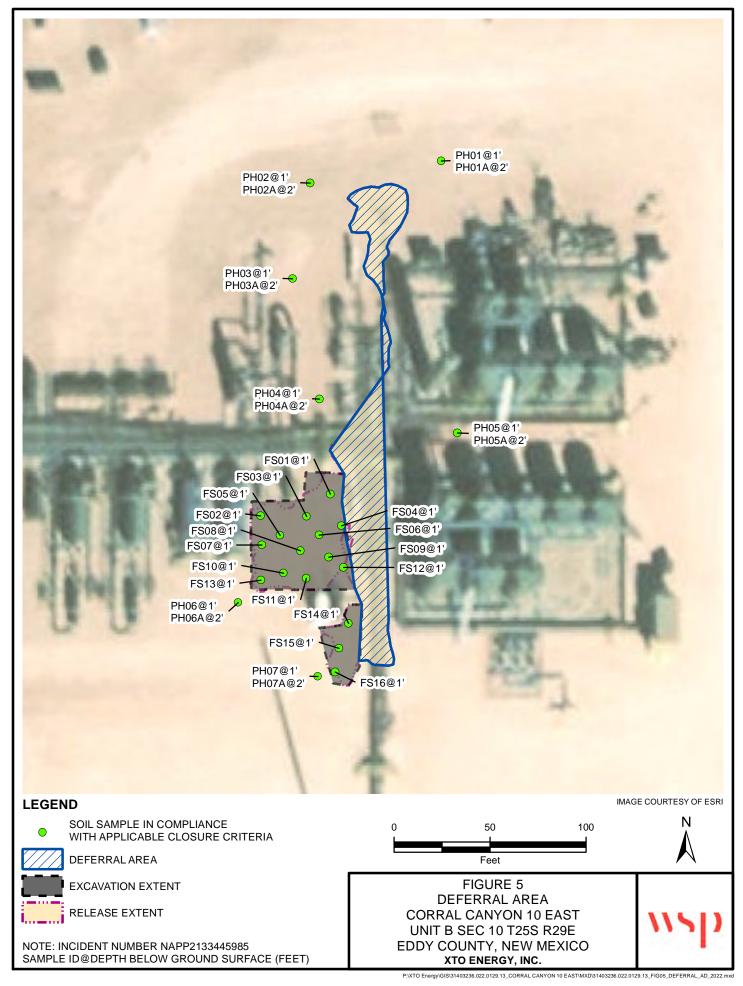


Table 1

#### Soil Analytical Results Corral Canyon 10 East Incident Number nAPP2133445985 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)
MOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Sar	nples									
SS01	12/21/2021	0.5	0.0132	0.0918	<49.9	<49.9	<49.9	<49.9	<49.9	24,800
SS02	12/21/2021	0.5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	28,600
Delineation Soil San	ıples									
PH01	01/12/2022	1	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	64.0
PH01A	01/12/2022	2	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	30.6
PH02	01/12/2022	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	164
PH02A	01/12/2022	2	< 0.00199	< 0.00398	<50.0	<50.0	< 50.0	< 50.0	< 50.0	102
PH03	01/12/2022	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	59.3
PH03A	01/12/2022	2	< 0.00199	< 0.00398	<50.0	<50.0	< 50.0	<50.0	< 50.0	37.4
PH04	01/12/2022	1	< 0.00200	< 0.00401	<50.0	<50.0	< 50.0	<50.0	<50.0	54.2
PH04A	01/12/2022	2	< 0.00202	< 0.00403	<50.0	<50.0	< 50.0	< 50.0	< 50.0	59.3
PH05	01/12/2022	1	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	779
PH05A	01/12/2022	2	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	248
PH06	01/12/2022	1	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	10.6
PH06A	01/12/2022	2	< 0.00200	< 0.00401	<50.0	<50.0	< 50.0	<50.0	< 50.0	43.7
PH07	01/12/2022	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	38.9
PH07A	01/12/2022	2	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
Excavation Floor Sa	mples									
FS01	01/12/2022	1	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	< 50.0	765
FS02	01/12/2022	1	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	< 50.0	2,720
FS03	01/12/2022	1	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	3,210

Table 1

#### Soil Analytical Results Corral Canyon 10 East Incident Number nAPP2133445985 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS04	01/12/2022	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	3,580
FS05	01/12/2022	1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	3,160
FS06	01/12/2022	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,940
FS07	01/12/2022	1	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	3,100
FS08	01/13/2022	1	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,430
FS09	01/13/2022	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	522
FS10	01/13/2022	1	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	1,260
FS11	01/13/2022	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	< 50.0	1,270
FS12	01/13/2022	1	< 0.00200	< 0.00399	< 50.0	<50.0	<50.0	<50.0	< 50.0	4,890
FS13	01/13/2022	1	< 0.00200	< 0.00401	< 50.0	<50.0	<50.0	<50.0	< 50.0	6,380
FS14	01/13/2022	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,620
FS15	01/13/2022	1	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	2,230
FS16	01/13/2022	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,670

#### **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



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

06/07/2021

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4525 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-4525 Pod1.

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Gaoon Modelin

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				-								
	OSE POD NO. (WELL NO.) POD1 (MW-1) WELL TAG ID NO. n/a							OSE FILE NO C-4525	O(S).			
<u>Š</u>					u/a							
ОСАТ	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)							PHONE (OPT	TONAL)			
GENERAL AND WELL LOCATION		well owner mailing address 6401 Holiday Hill Dr.								STATE TX	79707	ZIP
₽	WELL		DE	EGREES	MINUTES	SECONI	OS					
ALA	LOCATION	1271	TITUDE	32°	8'	57.48	N		Y REQUIRED: ONE TEN	TH OF A SE	COND	
KER	(FROM GPS	S) LO	NGITUDE	103°	58'	18.24	t" W	* DATUM RI	EQUIRED: WGS 84			
1. GE	DESCRIPTION NW NE Sec		NG WELL LOCATION TO SS R29E	STREET ADDRE	SS AND COMMO	ON LANDMA	RKS PLS	S (SECTION, T	OWNSHJIP, RANGE) WH	IERE AVAII	LABLE	
-	LICENSE NO.	-	NAME OF LICENSED	DRILLER			-		NAME OF WELL DR	ILLING CO	MPANY	
	124	9		Ja	ckie D. Atkin	ıs			Atkins Eng	gineering A	Associates, I	nc.
	DRILLING ST 05/26/2		05/26/2021	DEPTH OF COM tempora	PLETED WELL ( ry well mater			LE DEPTH (FT) 110	DEPTH WATER FIR	ST ENCOUN n/a	NTERED (FT)	
7	COMPLETED	WELL IS:	ARTESIAN	V DRY HOLE	SHALL	OW (UNCON	FINED)		STATIC WATER LEV	VEL IN COM n/a	IPLETED WE	LL (FT)
TIOIL	DRILLING FL	UID:	✓ AIR	MUD	ADDITI	IVES – SPECI	FY:					
RMA	DRILLING MI	ETHOD:	ROTARY	HAMMER	CABLE	TOOL	✓ OTHE	R – SPECIFY:	Hollow Stem Auger			
N.F.O	DEPTH (feet bgl) POPE HOLE CASING MATERIAL AND				D/OR	g, gp.tg		CASING	CASING CASING WAI		SLOT	
2. DRILLING & CASING INFORMATION	FROM TO DIAM GRAI			GRADE sch casing string	DE CASING CONNECTION Sing string, and TYPE		INSIDE DIAM. THICKNESS		KNESS	SIZE (inches)		
CASI	0	110	(inches)	note se	ctions of screen	-:		ling diameter)	(inches)	(ın	ches)	(inches)
43 (5	0	110	±6.5	В	oring- risA	-	_					-
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	-	-	-									
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7			+			-					-	
							-					
						-						
	DEPTH (	feet bgl)	BORE HOLE	LIST	Γ ANNULAR S	SEAL MAT	ERIAL A	AND	AMOUNT		метно	
3. ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GRAV	EL PACK SIZ	E-RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	MENT
TER												
MA												
AR												
Ę												
Ž												
3. 6				9								
FOR	OSE INTERN	NAL USE							20 WELL RECORD	& LOG (V	ersion 06/3	0/17)
FILE	E NO.				POD N	O.		TRN	NO.	1 20 4 20 5	Di Print.	= 1
LOC	LOCATION							WELL TAG ID NO. PAGE 1 OF 2				1 OF 2

	DEPTH (:	eet bgl)	ONES	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)		
Н	0	24	24	CALICHE, mod. consolidated, tan-off white, dry	-	Y /N	ZONES (gpm)
19			5			Y VN	
	24	29	-	SAND, poorly graded, very- fine grained, caliche gravel, light-b			
	29	39	10	SAND, poorly graded, very- fine grained, caliche gravel, light-brow			_
1	39	44	5	SAND, poorly graded, very- fine grained, light-brown, mois	-	Y √N	
	44	59	15	SAND, poorly graded, very- fine grained, light-brown, mois	-	Y √N	
ELL	59	69	10	SAND, poorly graded, very- fine grained, brown, moist		Y /N	
<u> </u>	69	74	5	SAND, poorly graded, very- fine grained, caliche gravel, brown,		Y /N	
0	74	79	5	SILTY SAND, poorly graded, very- fine grained, caliche gravel, brov	_	Y ✓N	
3	79	89	10	SAND, poorly graded, very- fine grained, with silt, brown, mo	-	Y /N	
ğ	89	94	5	SILTY SAND, poorly graded, very- fine grained, caliche gravel, brov		Y ✓N	
5	94	110	16	SILTY SAND, poorly graded, very- fine grained, brown, moi	st	Y ✓N	
						Y N	
DE						Y N	
4. HYDROGEOLOGIC LOG OF WELL						Y N	
4						Y N	
						Y N	
						YN	
						Y N	
						Y N	
						Y N	
						Y N	
	METHOD U		_	OF WATER-BEARING STRATA:  BAILER OTHER – SPECIFY:		AL ESTIMATED LL YIELD (gpm):	0.00
KIG SUFEKVISION	WELL TEST	STAR	T TIME, END TIE FORMATION: Te	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN of the soil boring backfilled to below ground surface, then hydrated bentonite chips from tengs adapted from WSP on-site geologist.	OVER THI using drill	E TESTING PERIO	D. al depth to ten
S. TEST; RIG			RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL C	ONSTRUC	CTION OTHER TH	AN LICENSEE
SIGNATURE	CORRECT F	ECORD O	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND E ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WEI O DAYS AFTER COMPLETION OF WELL DRILLING:		D WITH THE STA	
<b>≟</b>	June 1		TIND OF BEST T	Jackie D. Atkins		06/09/2021	
<i>a</i>		SIGNAT	UKE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
ó							
FOR	OSE INTERNE	IAL USE		WR-20 V		CORD & LOG (Vers	sion 06/30/2017

# 2021-06-07\_C-4525\_POD1\_OSE\_Well Record and Log\_cc10-forsign

Final Audit Report 2021-06-09

Created: 2021-06-09

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAA7DODTuQRhG0\_AakLR1z5zb63CkYjBAEN

# "2021-06-07\_C-4525\_POD1\_OSE\_Well Record and Log\_cc10-f orsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com)
  2021-06-09 6:47:39 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-06-09 6:48:09 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com)
  2021-06-09 6:48:32 PM GMT- IP address: 64.90,153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

  Signature Date: 2021-06-09 6:48:58 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-06-09 - 6:48:58 PM GMT

552 J. J. 10 2. 1 2017



# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:	
State Engineer Well Number: C-4525-POD1	
Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873	
Mailing address: 6401 Holiday Hill Dr.	
City: Midland State: Texas Zip code: 79707	
II. WELL PLUGGING INFORMATION:	
Name of well drilling company that plugged well:	
2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23	
Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Carmelo Trevino, Cameron Pruitt	=
4) Date well plugging began: 06/08/2021 Date well plugging concluded: 06/08/2021	
5) GPS Well Location: Latitude: 32 deg, 8 min, 57.48 sec Longitude: 103 deg, 58 min, 18.24 sec, WGS 84	
6) Depth of well confirmed at initiation of plugging as:111 ft below ground level (bgl), by the following manner: weighted tape	
7) Static water level measured at initiation of plugging:n/a ft bgl	
8) Date well plugging plan of operations was approved by the State Engineer:	
9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please dedifferences between the approved plugging plan and the well as it was plugged (attach additional pages as need to be approved plugging plan and the well as it was plugged (attach additional pages as need to be approved plugging plan and the well as it was plugged (attach additional pages as need to be approved plugging plan?	scribe led):
	7.5
	ı
	11 77

Version: September 8, 2009

Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

#### For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement  Method (tremie pipe, other)	Comments  ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 15.6 gallons	15.9 gallons	Augers	
	10'-110' Drill Cuttings	Approx. 172 gallons	172 gallons	Boring	
;					
=					
3 <del></del>					
-					
-					
-					
		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	BY         AND OBTAIN           1805         = gallons           27         = gallons	al alla alles.	JUV 10 2021 № 2117

#### III. SIGNATURE:

Jackie D. Atkins	, say that I am familiar with the rules	of the Office of the State
Engineer pertaining to the plugging of wells an	d that each and all of the statements in this Pluggi	
are true to the best of my knowledge and belief.	•	
Ja	ck Atkins	06/09/2021
	Signature of Well Driller	Date

Version: September 8, 2009 Page 2 of 2

# 2021-06-07\_C-4525\_POD1\_Plugging Record-forsigned

Final Audit Report 2021-06-09

Created: 2021-06-09

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAAZZbOJMVUywV9vJgDxWbmlHLTtf9Dxg6\_

# "2021-06-07\_C-4525\_POD1\_Plugging Record-forsigned" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-06-09 6:48:29 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-06-09 6:48:48 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-06-09 6:49:20 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

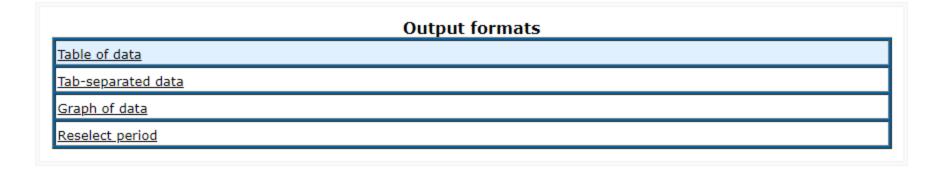
  Signature Date: 2021-06-09 6:49:38 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-06-09 - 6:49:38 PM GMT

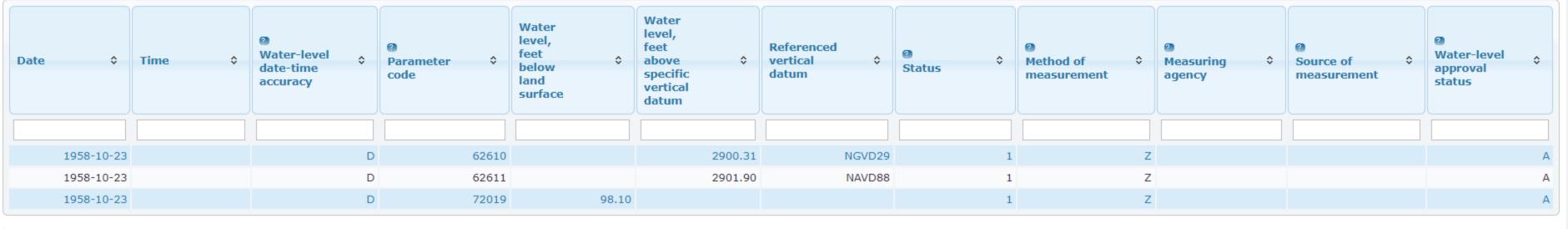
351 DU JLN 10 2021 PM2:17



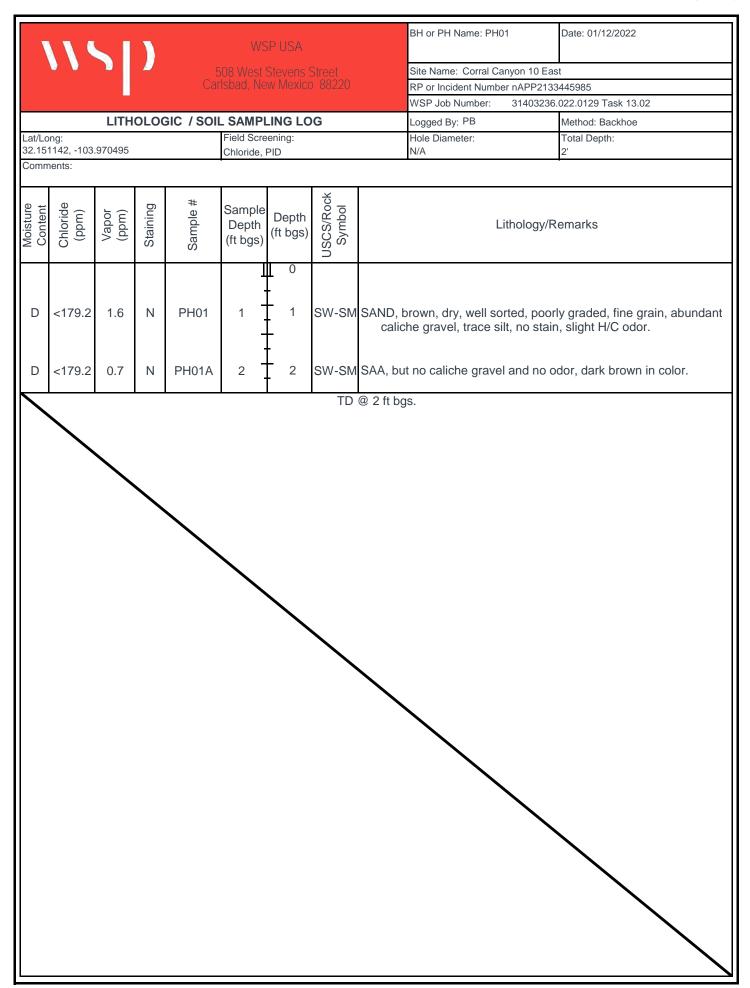
### USGS:520956403574304 25S.29E.02.11111

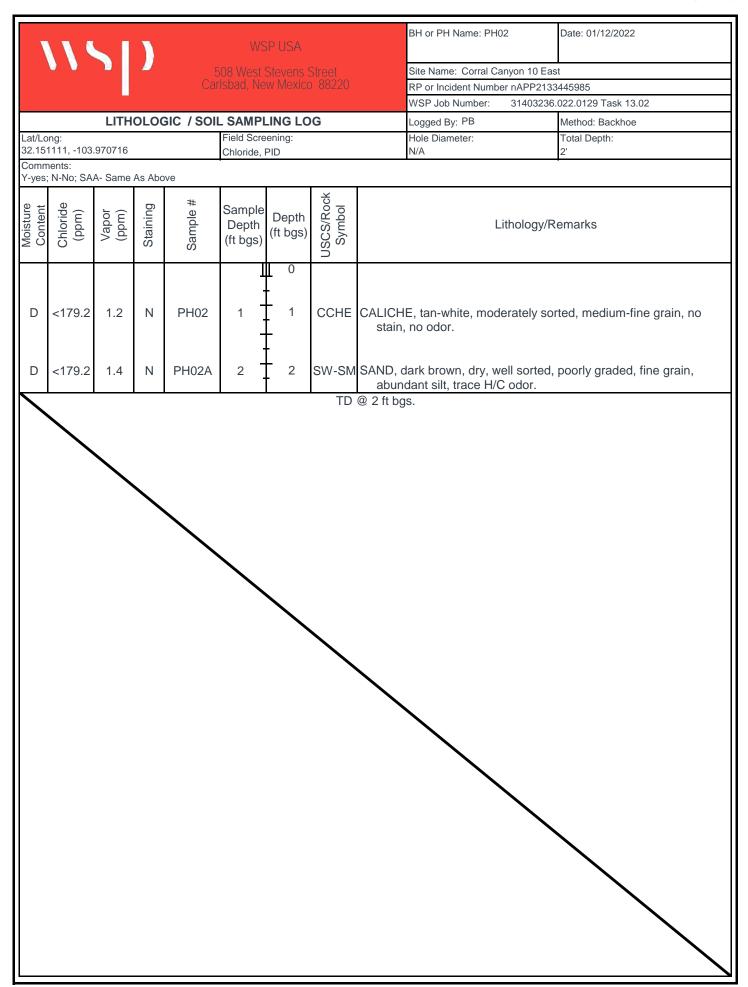
Eddy County, New Mexico
Latitude 32°09'56", Longitude 103°57'43" NAD27
Land-surface elevation 3,000 feet above NAVD88
The depth of the well is 140 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

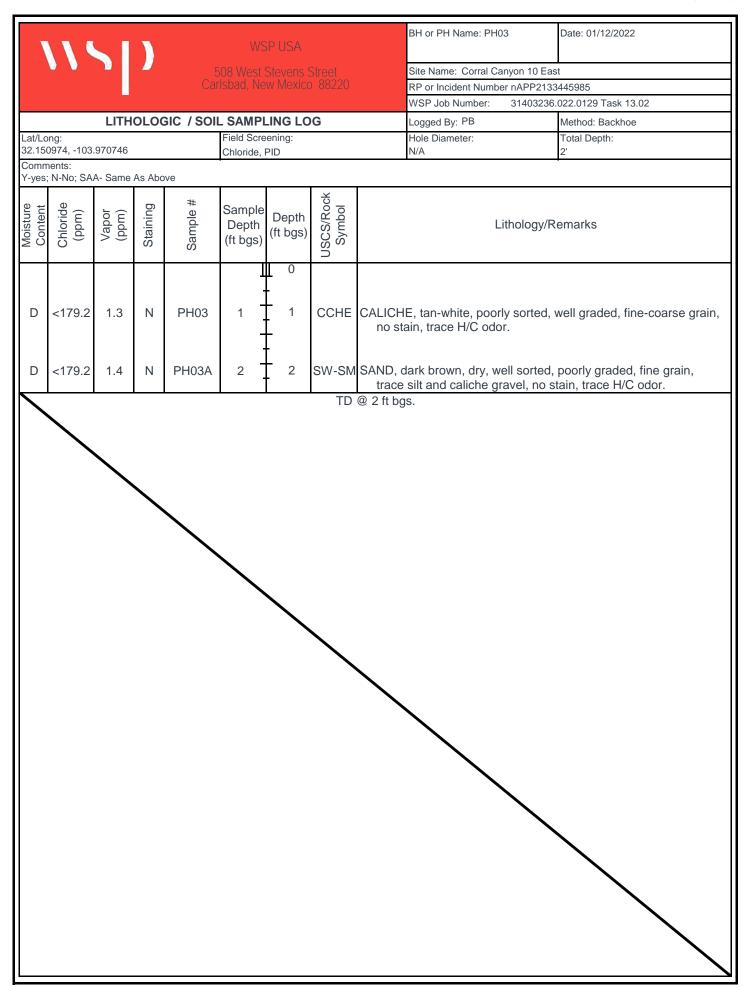


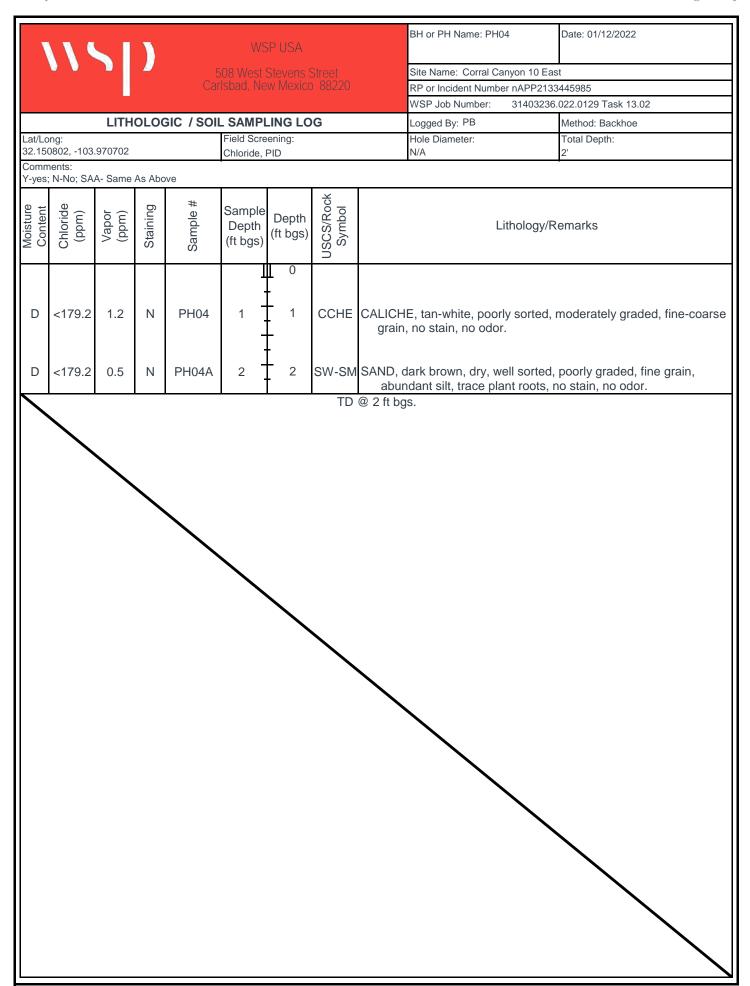


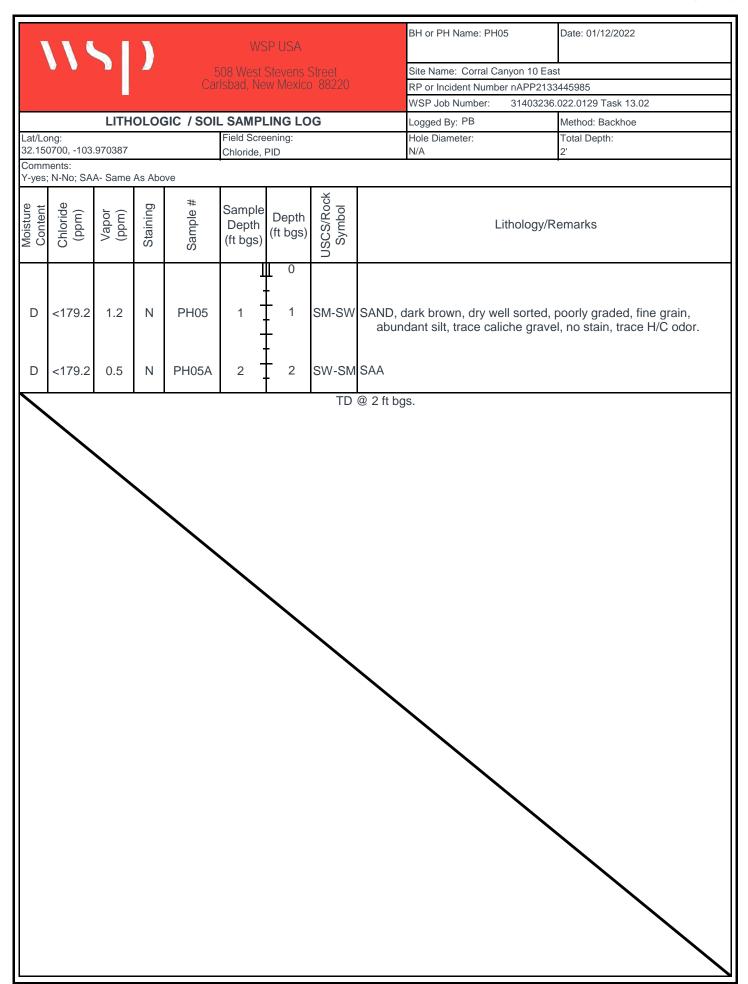
Released to Imaging: 4/20/2022 2:28:12 PM

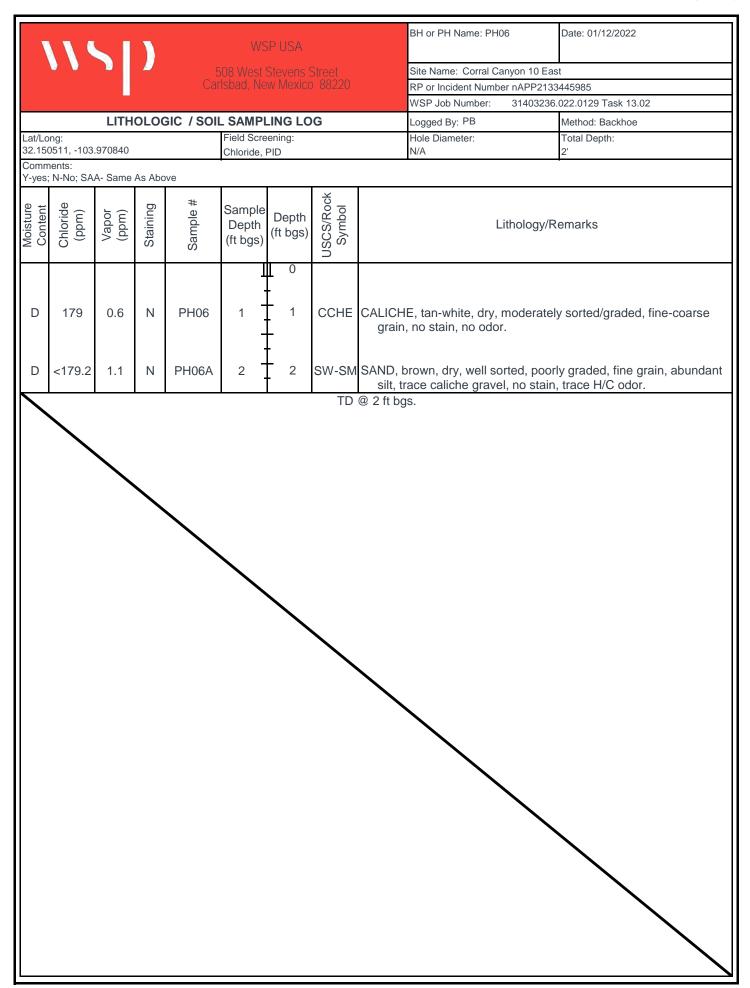


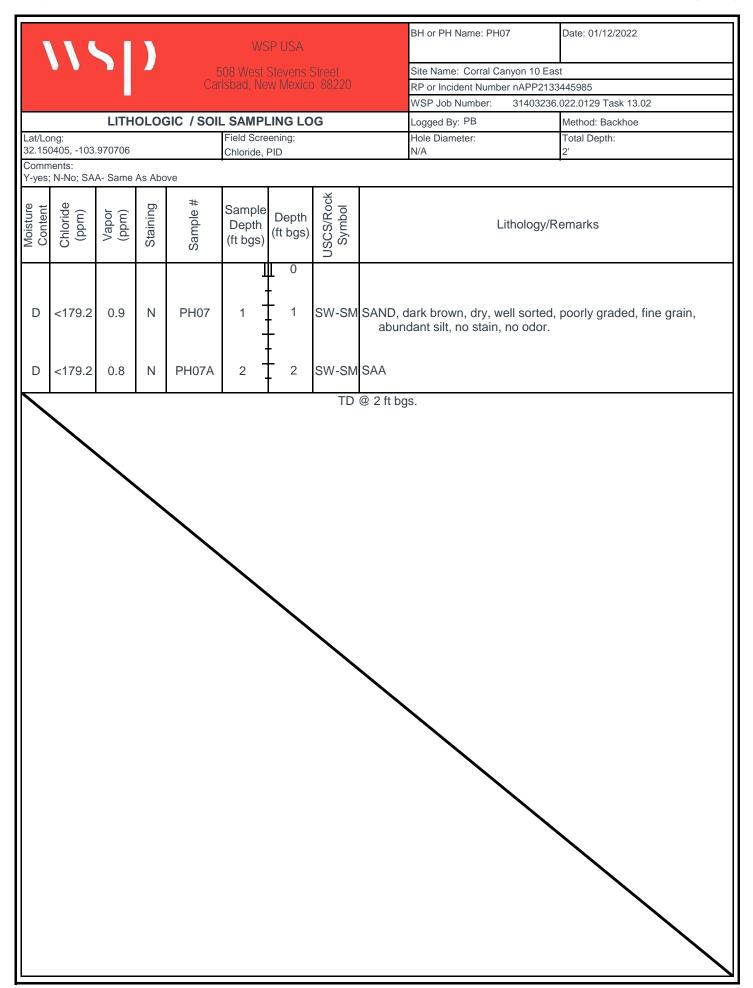














	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Corral Canyon 10 East	NAPP2133445985
	Eddy County, NM	

Photo No. Date
1 December 21, 2021
View of release extent prior to

excavation at location of SS02.



Photo No. Date
2 December 21, 2021

View of release extent prior to excavation at location of SS01.





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Corral Canyon 10 East	NAPP2133445985
	Eddy County, NM	

Photo No. Date

3 January 12, 2022

View of PH07 completed to the south of the release extent.



Photo No. Date
4 January 13, 2022
View of excavation at location of

SS02.





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Corral Canyon 10 East	NAPP2133445985
	Eddy County, NM	

Photo No.	Date	
5	January 13, 2022	
View of excav	ation at location	
	501.	

是有多义



# **Environment Testing America**

## **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1842-1

Laboratory SDG: 31403236.022.0129 task 13.02

Client Project/Site: Corral Canyon 10 East

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 1/24/2022 4:38:08 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 4/20/2022 2:28:12 PM

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

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

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13

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Client: WSP USA Inc. Project/Site: Corral Canyon 10 East Laboratory Job ID: 890-1842-1 SDG: 31403236.022.0129 task 13.02

# **Table of Contents**

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## **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

#### **Qualifiers**

GC	<b>VOA</b>
Qua	lifier

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

**Qualifier Description** 

**Qualifier Description** 

#### GC Semi VOA

Qualifier

U	Indicates the analyte was analyzed for but not detected.
S1-	Surrogate recovery exceeds control limits, low biased.
F2	MS/MSD RPD exceeds control limits
*1	LCS/LCSD RPD exceeds control limits.

#### HPLC/IC

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

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

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

**Eurofins Carlsbad** 

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

RPD TEF

TEQ

TNTC

Job ID: 890-1842-1

#### **Case Narrative**

Client: WSP USA Inc.
Project/Site: Corral Canyon 10 East SDG: 314

SDG: 31403236.022.0129 task 13.02

Job ID: 890-1842-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1842-1

#### Receipt

The samples were received on 1/18/2022 11:51 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 5.6°C

#### GC VOA

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

#### GC Semi VOA

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-17279 and analytical batch 880-17443 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28)

Method 8015MOD\_NM: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 880-17279 and analytical batch 880-17443 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: PH01A (890-1842-2), PH02 (890-1842-3), PH02A (890-1842-4), PH07 (890-1842-13) and (890-1842-A-1-D MS). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike (MS) recoveries for preparation batch 880-17336 and analytical batch 880-17522 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: PH02 (890-1842-3), PH02A (890-1842-4), PH03 (890-1842-5), PH03A (890-1842-6), PH04 (890-1842-7), PH04A (890-1842-8), PH05 (890-1842-9), PH05A (890-1842-10), PH06 (890-1842-11), PH06A (890-1842-12) and (890-1842-A-3-D MS).

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17336 and analytical batch 880-17522 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. The associated samples are: PH07 (890-1842-13), PH07A (890-1842-A-13-D MS) and (890-1842-A-13-E MSD).

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

Eurofins Carlsbad 1/24/2022

Lab Sample ID: 890-1842-1

## **Client Sample Results**

 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH01

Date Collected: 01/12/22 09:10 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/21/22 12:09	01/21/22 16:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/21/22 12:09	01/21/22 16:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/21/22 12:09	01/21/22 16:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/21/22 12:09	01/21/22 16:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/21/22 12:09	01/21/22 16:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/21/22 12:09	01/21/22 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			01/21/22 12:09	01/21/22 16:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130			01/21/22 12:09	01/21/22 16:08	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/24/22 17:08	1
Analyte Total TPH	<49.9	Qualifier U	<b>RL</b> 49.9	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	malka				
				ilig/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)		mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang Analyte	• •	RO) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	01/24/22 16:33  Analyzed	·
Analyte Gasoline Range Organics	Result		RL 49.9		<u>D</u>	Prepared 01/19/22 13:58		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1 F2		Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9   <49.9	Qualifier U *1 F2 U *1	49.9	unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:58	Analyzed 01/21/22 22:39 01/21/22 22:39	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result   <49.9	Qualifier U *1 F2 U *1	49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	01/19/22 13:58	<b>Analyzed</b> 01/21/22 22:39	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9   <49.9	Qualifier U*1 F2 U*1	49.9	unit mg/Kg mg/Kg	<u> </u>	01/19/22 13:58	Analyzed 01/21/22 22:39 01/21/22 22:39	Dil Fac
Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9   <49.9   <49.9	Qualifier U*1 F2 U*1	49.9 49.9 49.9	unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:58 01/19/22 13:58 01/19/22 13:58	Analyzed 01/21/22 22:39 01/21/22 22:39 01/21/22 22:39	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U*1 F2 U*1	49.9 49.9 49.9 <b>Limits</b>	unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared	Analyzed 01/21/22 22:39 01/21/22 22:39 01/21/22 22:39 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U*1 F2 U*1 U *1 Qualifier	49.9 49.9 49.9 <b>Limits</b> 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 <b>Prepared</b> 01/19/22 13:58	Analyzed 01/21/22 22:39 01/21/22 22:39 01/21/22 22:39 Analyzed 01/21/22 22:39	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U*1 F2 U*1 U *1 Qualifier	49.9 49.9 49.9 <b>Limits</b> 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 <b>Prepared</b> 01/19/22 13:58	Analyzed 01/21/22 22:39 01/21/22 22:39 01/21/22 22:39 Analyzed 01/21/22 22:39	Dil Face  1  1  Dil Face 1  Dil Face

**Client Sample ID: PH01A** 

Date Collected: 01/12/22 09:12 Date Received: 01/18/22 11:51

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 16:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 16:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 16:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/21/22 12:09	01/21/22 16:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 16:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/21/22 12:09	01/21/22 16:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			01/21/22 12:09	01/21/22 16:36	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-1842-2

Matrix: Solid

2

3

5

7

10

12

13

1/24/2022

Lab Sample ID: 890-1842-2

## **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1842-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH01A

Date Collected: 01/12/22 09:12 Date Received: 01/18/22 11:51

Sample Depth: 2

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualit	fier Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	93	70 - 130	01/21/22 12:09	01/21/22 16:36	

			V	<b>.</b>
Method:	lotal BIEX	( - Total	RIFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1

<del></del>		
Method: 8015 NM - Diesel Range Organics (	(DRO)	(GC)
method: 0010 MM - Dieser Range Organies (	Divo	$(\mathbf{U}\mathbf{U})$

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Mothod: 901ED	NM Diocol	Pango Ore	aniec /	DBO	CC
Method: 8015B	MINI - DIESEI	Range Org	janics (	DRO	(GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/21/22 23:44	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/21/22 23:44	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	П	49.9	mg/Kg		01/19/22 13:58	01/21/22 23:44	1
Oli Range Organics (Over 020-030)	<b>\4</b> 9.9	O	49.9	mg/rvg		01/19/22 13.30	01/21/22 23.44	'
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	68	S1-	70 - 130	
o-Terphenyl	70		70 - 130	

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		5.05				04/00/00 40 00	

Chloride	30.6	5.05	 01/22/22 13:30	
	30.0			

**Client Sample ID: PH02** Lab Sample ID: 890-1842-3 Date Collected: 01/12/22 09:17 Matrix: Solid

Date Received: 01/18/22 11:51

Sample Depth: 1

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

motifod. OUL ID Volutilo Orga	illo compoundo (	(00)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 12:09	01/21/22 17:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 12:09	01/21/22 17:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 12:09	01/21/22 17:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/21/22 12:09	01/21/22 17:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 12:09	01/21/22 17:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/21/22 12:09	01/21/22 17:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			01/21/22 12:09	01/21/22 17:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130			01/21/22 12:09	01/21/22 17:03	1

Mothod:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	ma/Ka			01/24/22 17:08	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			01/24/22 16:33	1

Lab Sample ID: 890-1842-3

Lab Sample ID: 890-1842-4

**Matrix: Solid** 

Client: WSP USA Inc. Job ID: 890-1842-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: PH02** 

Date Collected: 01/12/22 09:17 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 00:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/22/22 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			01/19/22 13:58	01/22/22 00:05	1
o-Terphenyl	70		70 - 130			01/19/22 13:58	01/22/22 00:05	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164	F1	4.99	mg/Kg			01/23/22 11:18	1

Client Sample ID: PH02A

Date Collected: 01/12/22 09:19

Date Received: 01/18/22 11:51

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 17:31	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 17:31	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 17:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/21/22 12:09	01/21/22 17:31	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/21/22 12:09	01/21/22 17:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/21/22 12:09	01/21/22 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/21/22 12:09	01/21/22 17:31	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/21/22 12:09	01/21/22 17:31	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 00:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 00:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/22/22 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130			01/19/22 13:58	01/22/22 00:27	1
o-Terphenyl		S1-	70 - 130			01/19/22 13:58	01/22/22 00:27	1

Lab Sample ID: 890-1842-4

## **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1842-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH02A

Date Collected: 01/12/22 09:19 Date Received: 01/18/22 11:51

Sample Depth: 2

	Method: 300.0 - Anions, Ion Chromatography - Soluble										
1	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
L	Chloride	102		5.04	mg/Kg			01/23/22 11:41	1		

**Client Sample ID: PH03** Lab Sample ID: 890-1842-5 Matrix: Solid

Date Collected: 01/12/22 09:22 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 17:23	
Toluene	< 0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 17:23	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 17:23	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/19/22 13:48	01/21/22 17:23	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 17:23	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/19/22 13:48	01/21/22 17:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			01/19/22 13:48	01/21/22 17:23	
1,4-Difluorobenzene (Surr)	114		70 - 130			01/19/22 13:48	01/21/22 17:23	1
· Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/22/22 00:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/22/22 00:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:58	01/22/22 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	75		70 - 130			01/19/22 13:58	01/22/22 00:49	1
o-Terphenyl	72		70 - 130			01/19/22 13:58	01/22/22 00:49	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1842-6

## **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1842-1

Project/Site: Correl Conven 10 Feet

SDC: 31403336 033 0130 took 13 03

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH03A

Date Collected: 01/12/22 09:24 Date Received: 01/18/22 11:51

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/22 13:48	01/21/22 17:43	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/19/22 13:48	01/21/22 17:43	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/19/22 13:48	01/21/22 17:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/22 13:48	01/21/22 17:43	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/19/22 13:48	01/21/22 17:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/22 13:48	01/21/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/19/22 13:48	01/21/22 17:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/19/22 13:48	01/21/22 17:43	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1
_	Organics (DR							
_		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	<b>RL</b> 50.0	Unit mg/Kg	<u>D</u>	Prepared	<b>Analyzed</b> 01/24/22 16:33	
Analyte Total TPH	Result   <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH  Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			01/24/22 16:33	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  ge Organics (Dige Result	Qualifier U  RO) (GC) Qualifier U *1	50.0	mg/Kg		Prepared	01/24/22 16:33 Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U  RO) (GC) Qualifier U *1 U *1	50.0 RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:58	01/24/22 16:33  Analyzed  01/22/22 01:11	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  RO) (GC) Qualifier U *1 U *1	50.0  RL  50.0  50.0	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58	01/24/22 16:33  Analyzed  01/22/22 01:11  01/22/22 01:11	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  RO) (GC) Qualifier U *1 U *1	50.0  RL  50.0  50.0  50.0	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58	01/24/22 16:33  Analyzed 01/22/22 01:11 01/22/22 01:11	Dil Face
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <50.0	Qualifier U  RO) (GC) Qualifier U *1 U *1	50.0  RL  50.0  50.0  50.0  Limits	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared	01/24/22 16:33  Analyzed 01/22/22 01:11 01/22/22 01:11 01/22/22 01:11 Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.0	Qualifier U  RO) (GC) Qualifier U *1  U *1  U  Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared 01/19/22 13:58	Analyzed 01/22/22 01:11 01/22/22 01:11 01/22/22 01:11 Analyzed 01/22/22 01:11	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  RO) (GC) Qualifier U *1  U *1  U  Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared 01/19/22 13:58	Analyzed 01/22/22 01:11 01/22/22 01:11 01/22/22 01:11 Analyzed 01/22/22 01:11	Dil Fac

Client Sample ID: PH04

Date Collected: 01/12/22 09:35 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 18:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 18:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 18:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/22 13:48	01/21/22 18:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 18:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/22 13:48	01/21/22 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			01/19/22 13:48	01/21/22 18:04	1

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Lab Sample ID: 890-1842-7

Matrix: Solid

Client: WSP USA Inc.

Job ID: 890-1842-1

SDG: 31403236.022.0129 task 13.02

Lab Sample ID: 890-1842-7

**Client Sample ID: PH04** 

Date Collected: 01/12/22 09:35 Date Received: 01/18/22 11:51

Project/Site: Corral Canyon 10 East

Sample Depth: 1

Method: 8021B	- Volatile Or	ganic Compo	unds (GC) (	Continued)

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95	70 - 130	01/19/22 13:48	01/21/22 18:04	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/22 17:08	1

Method: 8015 NM -	Diesel Rand	ne Organics	(DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 01:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 01:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/22/22 01:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	76	70 - 130
o-Terphenyl	71	70 - 130

1-Chlorooctane	76	70 - 130	01/19/22 13:58	01/22/22 01:33	1
o-Terphenyl	71	70 - 130	01/19/22 13:58	01/22/22 01:33	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.2	5.00	mg/Kg			01/23/22 12:03	1

Client Sample ID: PH04A Lab Sample ID: 890-1842-8 **Matrix: Solid** 

Date Collected: 01/12/22 09:37 Date Received: 01/18/22 11:51

Sample Depth: 2

Method: 8021B - '	Volatila	Organic (	Compounds	(CC)

motification colling		()						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/19/22 13:48	01/21/22 18:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/19/22 13:48	01/21/22 18:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/19/22 13:48	01/21/22 18:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130			01/19/22 13:48	01/21/22 18:24	1

#### **Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	ma/Ka			01/24/22 17:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (	DRO)	(GC
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

Lab Sample ID: 890-1842-8

Client: WSP USA Inc. Job ID: 890-1842-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH04A

Date Collected: 01/12/22 09:37 Date Received: 01/18/22 11:51

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 01:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 01:54	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/22/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			01/19/22 13:58	01/22/22 01:54	1
o-Terphenyl	82		70 - 130			01/19/22 13:58	01/22/22 01:54	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: PH05** Lab Sample ID: 890-1842-9 Matrix: Solid

Date Collected: 01/12/22 09:47 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/19/22 13:48	01/21/22 18:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 18:44	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/19/22 13:48	01/21/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			01/19/22 13:48	01/21/22 18:44	1
1,4-Difluorobenzene (Surr)	76		70 - 130			01/19/22 13:48	01/21/22 18:44	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/24/22 17:08	1
			0.00404	mg/Kg			01/24/22 17:08	1
Total BTEX  Method: 8015 NM - Diesel Range ( Analyte	Organics (DR		0.00404 RL	mg/Kg Unit	D	Prepared	01/24/22 17:08  Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range (	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range ( Analyte Total TPH	Organics (DRO Result <49.9	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range ( Analyte Total TPH  Method: 8015B NM - Diesel Range	Organics (DR) Result <49.9  Organics (DI)	O) (GC) Qualifier	RL	Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range ( Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte	Organics (DR) Result <49.9  Organics (DI)	Qualifier U  RO) (GC) Qualifier	<b>RL</b> 49.9	Unit mg/Kg			Analyzed 01/24/22 16:33	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR) Result <49.9 Organics (DI) Result	Qualifier U  RO) (GC) Qualifier		Unit mg/Kg		Prepared	Analyzed 01/24/22 16:33 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR) Result <49.9 Organics (DI) Result	Qualifier U  RO) (GC) Qualifier U *1		Unit mg/Kg		Prepared	Analyzed 01/24/22 16:33 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR) Result <49.9 Organics (DI) Result <49.9 <49.9	Qualifier U  RO) (GC) Qualifier U *1 U *1	RL 49.9  RL 49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58	Analyzed 01/24/22 16:33  Analyzed 01/22/22 02:16 01/22/22 02:16	Dil Fac  Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR) Result <49.9 Organics (DI) Result <49.9	Qualifier U  RO) (GC) Qualifier U *1 U *1	RL 49.9	Unit mg/Kg  Unit mg/Kg		Prepared 01/19/22 13:58	Analyzed 01/24/22 16:33  Analyzed 01/22/22 02:16	Dil Fac  Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR) Result <49.9 Organics (DI) Result <49.9 <49.9	Qualifier U  RO) (GC) Qualifier U *1 U *1 U	RL 49.9  RL 49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58	Analyzed 01/24/22 16:33  Analyzed 01/22/22 02:16 01/22/22 02:16	Dil Fac  Dil Fac  1  1  1
Method: 8015 NM - Diesel Range (Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DRC Result <49.9  Organics (DI Result <49.9  <49.9	Qualifier U  RO) (GC) Qualifier U *1 U *1 U	RL 49.9  RL 49.9  49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58	Analyzed 01/24/22 16:33  Analyzed 01/22/22 02:16 01/22/22 02:16 01/22/22 02:16	Dil Fac  Dil Fac  1

Client: WSP USA Inc.

Job ID: 890-1842-1

SDG: 31403236.022.0129 task 13.02

**Client Sample ID: PH05** 

Date Collected: 01/12/22 09:47 Date Received: 01/18/22 11:51

Project/Site: Corral Canyon 10 East

Sample Depth: 1

Lab Sample ID: 890-1842-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	779		4.99	mg/Kg			01/23/22 12:33	1		

Client Sample ID: PH05A

Date Collected: 01/12/22 09:50

Lab Sample ID: 890-1842-10

Matrix: Solid

Date Collected: 01/12/22 09:50 Date Received: 01/18/22 11:51

**Method: Total BTEX - Total BTEX Calculation** 

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 19:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 19:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 19:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/19/22 13:48	01/21/22 19:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/19/22 13:48	01/21/22 19:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/19/22 13:48	01/21/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			01/19/22 13:48	01/21/22 19:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/19/22 13:48	01/21/22 19:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range (	Organice (DP)	O) (GC)						
	•		D.	1114	_	D	A a b a d	D!! F
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1
_								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/22/22 02:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/22/22 02:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:58	01/22/22 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			01/19/22 13:58	01/22/22 02:38	1
o-Terphenyl	84		70 - 130			01/19/22 13:58	01/22/22 02:38	1

Method: 300.0 - Anions, Ion Chrom	atography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		5.00	mg/Kg			01/23/22 12:41	1

Lab Sample ID: 890-1842-11

## **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1842-1

Project/Site: Correl Conven 10 Feet

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH06

Date Collected: 01/12/22 10:00 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 19:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 19:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 19:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/19/22 13:48	01/21/22 19:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/19/22 13:48	01/21/22 19:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/19/22 13:48	01/21/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			01/19/22 13:48	01/21/22 19:25	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/19/22 13:48	01/21/22 19:25	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/24/22 17:08	1
Analyte	Dogule							
Allalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<50.0		50.0	Mg/Kg	D	Prepared	Analyzed 01/24/22 16:33	
Total TPH	<50.0	U			<u>D</u>	Prepared		
Total TPH  Method: 8015B NM - Diesel Ran	<50.0	U			<u>D</u> 	Prepared Prepared		1
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0	mg/Kg	<u> </u>		01/24/22 16:33	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0  ge Organics (D  Result	RO) (GC) Qualifier U*1	50.0	mg/Kg	<u> </u>	Prepared	01/24/22 16:33  Analyzed	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10	<50.0  ge Organics (D)  Result  <50.0	U RO) (GC) Qualifier U*1	8L 50.0	mg/Kg  Unit  mg/Kg	<u> </u>	Prepared 01/19/22 13:58	01/24/22 16:33  Analyzed  01/22/22 03:21	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0  ge Organics (D)  Result  <50.0  <50.0	U RO) (GC) Qualifier U*1 U*1	50.0  RL  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg	<u> </u>	Prepared 01/19/22 13:58 01/19/22 13:58	01/24/22 16:33  Analyzed  01/22/22 03:21  01/22/22 03:21	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U*1 U*1	50.0  RL  50.0  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg	<u> </u>	Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58	01/24/22 16:33  Analyzed 01/22/22 03:21 01/22/22 03:21 01/22/22 03:21	Dil Face 1 1 1 Dil Face
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	U RO) (GC) Qualifier U*1 U*1	50.0  RL 50.0  50.0  50.0  Limits	mg/Kg  Unit  mg/Kg  mg/Kg	<u> </u>	Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared	01/24/22 16:33  Analyzed 01/22/22 03:21 01/22/22 03:21 01/22/22 03:21  Analyzed	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery 77 74	CONTROL (GC) Qualifier U*1 U*1 U Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg	<u> </u>	Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared 01/19/22 13:58	01/24/22 16:33  Analyzed 01/22/22 03:21  01/22/22 03:21  Analyzed  01/22/22 03:21	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <70.0 *Recovery 77 74 omatography -	CONTROL (GC) Qualifier U*1 U*1 U Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg	<u> </u>	Prepared 01/19/22 13:58 01/19/22 13:58 01/19/22 13:58 Prepared 01/19/22 13:58	01/24/22 16:33  Analyzed 01/22/22 03:21  01/22/22 03:21  Analyzed  01/22/22 03:21	Dil Fac

Client Sample ID: PH06A

Date Collected: 01/12/22 10:02

Date Received: 01/18/22 11:51

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 19:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 19:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 19:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/22 13:48	01/21/22 19:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 19:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/22 13:48	01/21/22 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/19/22 13:48	01/21/22 19:46	1

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Lab Sample ID: 890-1842-12

Matrix: Solid

Lab Sample ID: 890-1842-12

## **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1842-1

Project/Site: Correl Conven 10 Feet

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH06A

Date Collected: 01/12/22 10:02 Date Received: 01/18/22 11:51

Sample Depth: 2

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	( Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78	70 - 130	01/19/22 13:48	01/21/22 19:46	1

Mothod:	Total RTEX	- Total BTE	<b>Calculation</b>
welliou.	TOTAL DIEV	- IUIAI DIE	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/22 17:08	1

Method: 8015 NM - Diesel Rar	nge Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

ı		
ı	Method: 8015B NM - Diesel Range Organics (DRO) (G	C)
ı	metrica. co rob ram - bicser range organics (bito) (c	,,,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 03:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 03:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/22/22 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

				. ,
1-Chlorooctane	77	70 - 130	01/19/22 13:58	01/22/22 03:43
o-Terphenyl	76	70 - 130	01/19/22 13:58	01/22/22 03:43

Method: 300.0 - Anions, Ion Chror	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.7	5.00	ma/Ka			01/23/22 12:56	1

Client Sample ID: PH07

Date Collected: 01/12/22 10:07

Lab Sample ID: 890-1842-13

Matrix: Solid

Date Collected: 01/12/22 10:07 Date Received: 01/18/22 11:51

Sample Depth: 1

Method: 8021B - '	Volatila	Organic (	Compounds	(CC)

Wethou. 602 fb - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/22 13:48	01/21/22 20:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/22 13:48	01/21/22 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			01/19/22 13:48	01/21/22 20:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130			01/19/22 13:48	01/21/22 20:06	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/22 17:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

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4 4

1 /

Lab Sample ID: 890-1842-13

Lab Sample ID: 890-1842-14

Matrix: Solid

## **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1842-1

Project/Site: Correl Conven 10 Feet

SDC: 21402226 022 0120 took 12 02

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH07

Date Collected: 01/12/22 10:07 Date Received: 01/18/22 11:51

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 04:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *1	50.0	mg/Kg		01/19/22 13:58	01/22/22 04:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/22/22 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			01/19/22 13:58	01/22/22 04:04	1
o-Terphenyl	66	S1-	70 - 130			01/19/22 13:58	01/22/22 04:04	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9	F1	4.95	mg/Kg			01/23/22 13:04	1

Client Sample ID: PH07A

Date Collected: 01/12/22 10:10

Date Received: 01/18/22 11:51

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/22 13:48	01/21/22 20:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 20:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/22 13:48	01/21/22 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/19/22 13:48	01/21/22 20:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/19/22 13:48	01/21/22 20:26	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/22/22 04:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		01/19/22 13:58	01/22/22 04:26	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:58	01/22/22 04:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			01/19/22 13:58	01/22/22 04:26	1
o-Terphenyl	79		70 - 130			01/19/22 13:58	01/22/22 04:26	1

## **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

**Client Sample ID: PH07A** Date Collected: 01/12/22 10:10 Lab Sample ID: 890-1842-14

Date Received: 01/18/22 11:51

Matrix: Solid

Sample Depth: 2

Method: 300.0 - Anions, Ion Chron	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.04	mg/Kg			01/23/22 13:26	1

#### **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits
₋ab Sample ID	Client Sample ID	(70-130)	(70-130)	
320-3188-A-21-A MS	Matrix Spike	108	95	·
320-3188-A-21-B MSD	Matrix Spike Duplicate	103	94	
380-10254-A-6-M MS	Matrix Spike	87	63 S1-	
380-10254-A-6-N MSD	Matrix Spike Duplicate	76	87	
390-1842-1	PH01	103	98	
390-1842-2	PH01A	95	93	
390-1842-3	PH02	95	93	
390-1842-4	PH02A	101	99	
390-1842-5	PH03	134 S1+	114	
390-1842-6	PH03A	119	103	
390-1842-7	PH04	137 S1+	95	
390-1842-8	PH04A	113	96	
90-1842-9	PH05	126	76	
390-1842-10	PH05A	122	102	
390-1842-11	PH06	130	104	
390-1842-12	PH06A	108	78	
90-1842-13	PH07	110	108	
390-1842-14	PH07A	113	99	
CS 880-17113/1-A	Lab Control Sample	91	110	
.CS 880-17169/1-A	Lab Control Sample	95	107	
.CS 880-17426/1-A	Lab Control Sample	100	101	
.CSD 880-17113/2-A	Lab Control Sample Dup	92	100	
.CSD 880-17169/2-A	Lab Control Sample Dup	95	101	
CSD 880-17426/2-A	Lab Control Sample Dup	104	94	
/IВ 880-17113/5-A	Method Blank	78	88	
/IB 880-17169/5-A	Method Blank	109	103	
Surrogate Legend BFB = 4-Bromofluorober				

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID			
890-1843-A-21-B MSD	Matrix Spike Duplicate			
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1842-1	PH01	73	72	
890-1842-1 MS	PH01	68 S1-	71	

## **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1842-1 MSD	PH01	73	74	
890-1842-2	PH01A	68 S1-	70	
890-1842-3	PH02	69 S1-	70	
890-1842-4	PH02A	61 S1-	57 S1-	
890-1842-5	PH03	75	72	
890-1842-6	PH03A	83	79	
890-1842-7	PH04	76	71	
890-1842-8	PH04A	86	82	
890-1842-9	PH05	84	81	
890-1842-10	PH05A	85	84	
890-1842-11	PH06	77	74	
890-1842-12	PH06A	77	76	
890-1842-13	PH07	66 S1-	66 S1-	
890-1842-14	PH07A	78	79	

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-17279/2-A	Lab Control Sample	116	117	
LCSD 880-17279/3-A	Lab Control Sample Dup	82	88	
MB 880-17279/1-A	Method Blank	93	92	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17113/5-A

Lab Sample ID: LCS 880-17113/1-A

**Matrix: Solid** 

Matrix: Solid

Analysis Batch: 17425

Analysis Batch: 17425

**Matrix: Solid** Analysis Batch: 17425 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17113

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		01/19/22 11:00	01/21/22 12:53	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/19/22 11:00	01/21/22 12:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/19/22 11:00	01/21/22 12:53	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17113

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1127	-	mg/Kg		113	70 - 130	
Toluene	0.100	0.09574		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09535		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.2108		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1114		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery Qualif	ïer Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 17113

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09102		mg/Kg		91	70 - 130	21	35
Toluene	0.100	0.07603		mg/Kg		76	70 - 130	23	35
Ethylbenzene	0.100	0.07455		mg/Kg		75	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.1629		mg/Kg		81	70 - 130	26	35
o-Xylene	0.100	0.08821		mg/Kg		88	70 - 130	23	35

LCSD LCSD

Surrogate	%Recovery (	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-10254-A-6-M MS

Lab Sample ID: LCSD 880-17113/2-A

**Matrix: Solid** 

Analysis Batch: 17425

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

Prep Batch: 17113

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.0992	0.005473	F1	mg/Kg	_	6	70 - 130	
Toluene	<0.00199	U F1 F2	0.0992	0.003894	F1	mg/Kg		4	70 - 130	

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: 880-10254-A-6-M MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 17425** Prep Batch: 17113

Sample	Sample	<b>Бріке</b>	IVIS	M2				%Rec.
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.00199	U F1	0.0992	0.005393	F1	mg/Kg		5	70 - 130
<0.00398	U F1	0.198	0.01999	F1	mg/Kg		10	70 - 130
<0.00199	U F1	0.0992	0.01152	F1	mg/Kg		12	70 - 130
	<0.00199	Result   Qualifier	Result Qualifier   Added	Result         Qualifier         Added         Result           <0.00199	Result         Qualifier         Added         Result         Qualifier           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit           <0.00199	Result Qualifier         Added Added         Result Qualifier         Unit D mg/Kg         D           <0.00199	Result Qualifier         Added         Result Qualifier         Unit         D         %Rec           <0.00199

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 87 1,4-Difluorobenzene (Surr) 70 - 130 63 S1-

Lab Sample ID: 880-10254-A-6-N MSD **Client Sample ID: Matrix Spike Duplicate** 

**Matrix: Solid** Prep Type: Total/NA Prep Batch: 17113 **Analysis Batch: 17425** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.100	0.005487	F1	mg/Kg		5	70 - 130	0	35
Toluene	<0.00199	U F1 F2	0.100	0.005737	F1 F2	mg/Kg		6	70 - 130	38	35
Ethylbenzene	<0.00199	U F1	0.100	0.005685	F1	mg/Kg		6	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.01657	F1	mg/Kg		8	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.100	0.008377	F1	mg/Kg		8	70 - 130	32	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1.4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-17169/5-A Client Sample ID: Method Blank

**Matrix: Solid** Prep Type: Total/NA Prep Batch: 17169 **Analysis Batch: 17429** MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 12:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 12:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 12:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/22 13:48	01/21/22 12:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 13:48	01/21/22 12:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/22 13:48	01/21/22 12:04	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/19/22 13:48	01/21/22 12:04	1
1 4-Difluorobenzene (Surr)	103		70 130	01/19/22 13:48	01/21/22 12:04	1

Lab Sample ID: LCS 880-17169/1-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA

Analysis Batch: 17429 Prep Batch: 17169

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08823		mg/Kg		88	70 - 130	
Toluene	0.100	0.07876		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.07399		mg/Kg		74	70 - 130	
m-Xylene & p-Xylene	0.200	0.1521		mg/Kg		76	70 - 130	

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: LCS 880-17169/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17429 Prep Batch: 17169 Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.08095 81 70 - 130 o-Xylene mg/Kg

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 95 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 107

Lab Sample ID: LCSD 880-17169/2-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17429** Prep Batch: 17169

LCSD LCSD RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Benzene 0.100 0.09770 mg/Kg 98 70 - 130 10 35 Toluene 0.100 0.08720 mg/Kg 87 70 - 130 10 35 Ethylbenzene 0.100 0.08342 mg/Kg 83 70 - 130 12 35 m-Xylene & p-Xylene 0.200 0.1673 mg/Kg 84 70 - 130 35 0.100 0.08484 85 70 - 130 35 o-Xylene mg/Kg 5

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 95 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 890-1843-A-21-B MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 17429** 

MSD MSD RPD Sample Sample Spike %Rec. Limit Result Qualifier Added Result Qualifier RPD Analyte Unit %Rec Limits D Benzene <0.00201 U 0.0990 0.07840 mg/Kg Toluene < 0.00201 U 0.0990 0.06934 mg/Kg Ethylbenzene <0.00201 U 0.0990 0.06580 mg/Kg m-Xylene & p-Xylene < 0.00402 U 0.198 0.1343 mg/Kg o-Xylene <0.00201 U 0.0990 0.06788 mg/Kg

MSD MSD Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr)

Released to Imaging: 4/20/2022 2:28:12 PM

1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-17426/1-A Client Sample ID: Lab Control Sample

**Matrix: Solid Analysis Batch: 17429** 

Spike LCS LCS %Rec. Result Qualifier Limits Analyte Added Unit %Rec Benzene 0.100 0.09060 mg/Kg 91 70 - 130 0.100 Toluene 0.08073 81 70 - 130mg/Kg Ethylbenzene 0.100 0.07731 mg/Kg 77 70 - 130 m-Xylene & p-Xylene 0.200 0.1543 mg/Kg 77 70 - 130o-Xylene 0.100 0.07819 mg/Kg 78 70 - 130

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Prep Type: Total/NA

Prep Batch: 17426

Prep Batch: 17169

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

LCS LCS

Lab Sample ID: LCS 880-17426/1-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

**Analysis Batch: 17429** 

Prep Type: Total/NA

Prep Batch: 17426

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: LCSD 880-17426/2-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 17429

Prep Type: Total/NA

Prep Batch: 17426

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 0.100 0.08899 89 70 - 130 2 35 Benzene mg/Kg Toluene 0.100 0.08118 mg/Kg 81 70 - 130 35 0.100 0.07771 mg/Kg 78 70 - 130 35 Ethylbenzene m-Xylene & p-Xylene 0.200 0.1613 mg/Kg 81 70 - 130 35 o-Xylene 0.100 0.07892 mg/Kg 79 70 - 130 35

LCSD LCSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

Lab Sample ID: 820-3188-A-21-B MSD

**Matrix: Solid** 

**Analysis Batch: 17429** 

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

Prep Batch: 17426

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.06041		mg/Kg					
Toluene	<0.00199	U	0.101	0.05726		mg/Kg					
Ethylbenzene	< 0.00199	U	0.101	0.05610		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1137		mg/Kg					
o-Xylene	< 0.00199	U	0.101	0.05557		mg/Kg					

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 103 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 94

Lab Sample ID: 820-3188-A-21-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 17429** 

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: MB 880-17279/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17443

Prep Batch: 17279

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/21/22 21:34	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/21/22 21:34	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:58	01/21/22 21:34	1
	MB	MB						

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93	70 - 130	01/19/22 13:58	01/21/22 21:34	1
o-Terphenyl	92	70 - 130	01/19/22 13:58	01/21/22 21:34	1

**Client Sample ID: Lab Control Sample** 

Matrix: Solid Analysis Batch: 17443

Lab Sample ID: LCS 880-17279/2-A

Prep Type: Total/NA Prep Batch: 17279

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1144		mg/Kg		114	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1131		mg/Kg		113	70 - 130	
C10-C28)								

	LCS L	LCS	
Surrogate	%Recovery (	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-17279/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 17443** 

**Prep Type: Total/NA** Prep Batch: 17279

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	829.4	*1	mg/Kg		83	70 - 130	32	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	845.7	*1	mg/Kg		85	70 - 130	29	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenvl	88		70 <sub>-</sub> 130

Lab Sample ID: 890-1842-1 MS **Client Sample ID: PH01** Matrix: Solid

Analysis Batch: 17443

Prep Type: Total/NA Prep Batch: 17279

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U *1 F2	997	909.4	-	mg/Kg	_	87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U *1	997	935.0		mg/Kg		94	70 - 130	
C10-C28)										

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: 890-1842-1 MS **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17443** Prep Batch: 17279

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-1842-1 MSD **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 17443** Prep Batch: 17279

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F2	996	1151	F2	mg/Kg		112	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	996	993.7		mg/Kg		100	70 - 130	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	73		70 - 130								

70 - 130

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

Lab Sample ID: MB 880-17334/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

o-Terphenyl

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Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/21/22 23:25

Lab Sample ID: LCS 880-17334/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 269.8 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-17334/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

Spike LCSD LCSD %Rec. RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 271.8 mg/Kg 109 90 - 110 20

Lab Sample ID: 890-1840-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 17415

Sample Sample Spike MS MS %Rec. Qualifier Added Result Qualifier Unit

Analyte Result %Rec Limits Chloride 765 248 1021 mg/Kg 103 90 - 110

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1840-A-1-G MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble** 

Analysis Batch: 17415

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	765		248	1002		mg/Kg		96	90 - 110	2	20	

Lab Sample ID: MB 880-17336/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 17522

MB MB

Analyte	Result Qual		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			01/23/22 10:55	1

Lab Sample ID: LCS 880-17336/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble** 

**Analysis Batch: 17522** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	273.1		mg/Kg	_	109	90 - 110	

Lab Sample ID: LCSD 880-17336/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17522** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	272.4		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-1842-3 MS Client Sample ID: PH02 **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 17522

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	164	F1	250	448.8	F1	ma/Ka		114	90 110	

Lab Sample ID: 890-1842-3 MSD Client Sample ID: PH02 **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 17522** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	164	F1	250	437.3		mg/Kg	_	109	90 - 110	3	20	

Lab Sample ID: 890-1842-13 MS **Client Sample ID: PH07 Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17522** 

_	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	38.9	F1	248	344.0	F1	ma/Ka		123	90 - 110

Lab Sample ID: 890-1842-13 MSD Client Sample ID: PH07 **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 17522** 

Analysis Batch. 17022											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	38.9	F1	248	349.6	F1	mg/Kg		126	90 - 110	2	20

 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

**GC VOA** 

#### Prep Batch: 17113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Total/NA	Solid	5035	_
890-1842-2	PH01A	Total/NA	Solid	5035	
890-1842-3	PH02	Total/NA	Solid	5035	
890-1842-4	PH02A	Total/NA	Solid	5035	
MB 880-17113/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17113/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17113/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10254-A-6-M MS	Matrix Spike	Total/NA	Solid	5035	
880-10254-A-6-N MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 17169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-5	PH03	Total/NA	Solid	5035	_
890-1842-6	PH03A	Total/NA	Solid	5035	
890-1842-7	PH04	Total/NA	Solid	5035	
890-1842-8	PH04A	Total/NA	Solid	5035	
890-1842-9	PH05	Total/NA	Solid	5035	
890-1842-10	PH05A	Total/NA	Solid	5035	
890-1842-11	PH06	Total/NA	Solid	5035	
890-1842-12	PH06A	Total/NA	Solid	5035	
890-1842-13	PH07	Total/NA	Solid	5035	
890-1842-14	PH07A	Total/NA	Solid	5035	
MB 880-17169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1843-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 17425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Total/NA	Solid	8021B	17113
890-1842-2	PH01A	Total/NA	Solid	8021B	17113
890-1842-3	PH02	Total/NA	Solid	8021B	17113
890-1842-4	PH02A	Total/NA	Solid	8021B	17113
MB 880-17113/5-A	Method Blank	Total/NA	Solid	8021B	17113
LCS 880-17113/1-A	Lab Control Sample	Total/NA	Solid	8021B	17113
LCSD 880-17113/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17113
880-10254-A-6-M MS	Matrix Spike	Total/NA	Solid	8021B	17113
880-10254-A-6-N MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17113

#### Prep Batch: 17426

<b>Lab Sample ID</b> LCS 880-17426/1-A	Client Sample ID Lab Control Sample	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
LCSD 880-17426/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-3188-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 17429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-5	PH03	Total/NA	Solid	8021B	17169
890-1842-6	PH03A	Total/NA	Solid	8021B	17169
890-1842-7	PH04	Total/NA	Solid	8021B	17169
890-1842-8	PH04A	Total/NA	Solid	8021B	17169

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 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

GC VOA (Continued)

#### **Analysis Batch: 17429 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-9	PH05	Total/NA	Solid	8021B	17169
890-1842-10	PH05A	Total/NA	Solid	8021B	17169
890-1842-11	PH06	Total/NA	Solid	8021B	17169
890-1842-12	PH06A	Total/NA	Solid	8021B	17169
890-1842-13	PH07	Total/NA	Solid	8021B	17169
890-1842-14	PH07A	Total/NA	Solid	8021B	17169
MB 880-17169/5-A	Method Blank	Total/NA	Solid	8021B	17169
LCS 880-17169/1-A	Lab Control Sample	Total/NA	Solid	8021B	17169
LCS 880-17426/1-A	Lab Control Sample	Total/NA	Solid	8021B	17426
LCSD 880-17169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17169
LCSD 880-17426/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17426
820-3188-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	
820-3188-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17426
890-1843-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17169

#### Analysis Batch: 17647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Total/NA	Solid	Total BTEX	
890-1842-2	PH01A	Total/NA	Solid	Total BTEX	
890-1842-3	PH02	Total/NA	Solid	Total BTEX	
890-1842-4	PH02A	Total/NA	Solid	Total BTEX	
890-1842-5	PH03	Total/NA	Solid	Total BTEX	
890-1842-6	PH03A	Total/NA	Solid	Total BTEX	
890-1842-7	PH04	Total/NA	Solid	Total BTEX	
890-1842-8	PH04A	Total/NA	Solid	Total BTEX	
890-1842-9	PH05	Total/NA	Solid	Total BTEX	
890-1842-10	PH05A	Total/NA	Solid	Total BTEX	
890-1842-11	PH06	Total/NA	Solid	Total BTEX	
890-1842-12	PH06A	Total/NA	Solid	Total BTEX	
890-1842-13	PH07	Total/NA	Solid	Total BTEX	
890-1842-14	PH07A	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 17279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Total/NA	Solid	8015NM Prep	
890-1842-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1842-3	PH02	Total/NA	Solid	8015NM Prep	
890-1842-4	PH02A	Total/NA	Solid	8015NM Prep	
890-1842-5	PH03	Total/NA	Solid	8015NM Prep	
890-1842-6	PH03A	Total/NA	Solid	8015NM Prep	
890-1842-7	PH04	Total/NA	Solid	8015NM Prep	
890-1842-8	PH04A	Total/NA	Solid	8015NM Prep	
890-1842-9	PH05	Total/NA	Solid	8015NM Prep	
890-1842-10	PH05A	Total/NA	Solid	8015NM Prep	
890-1842-11	PH06	Total/NA	Solid	8015NM Prep	
890-1842-12	PH06A	Total/NA	Solid	8015NM Prep	
890-1842-13	PH07	Total/NA	Solid	8015NM Prep	
890-1842-14	PH07A	Total/NA	Solid	8015NM Prep	
MB 880-17279/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

GC Semi VOA (Continued)

#### Prep Batch: 17279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-17279/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17279/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1842-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-1842-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 17443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Total/NA	Solid	8015B NM	17279
890-1842-2	PH01A	Total/NA	Solid	8015B NM	17279
890-1842-3	PH02	Total/NA	Solid	8015B NM	17279
890-1842-4	PH02A	Total/NA	Solid	8015B NM	17279
890-1842-5	PH03	Total/NA	Solid	8015B NM	17279
890-1842-6	PH03A	Total/NA	Solid	8015B NM	17279
890-1842-7	PH04	Total/NA	Solid	8015B NM	17279
890-1842-8	PH04A	Total/NA	Solid	8015B NM	17279
890-1842-9	PH05	Total/NA	Solid	8015B NM	17279
890-1842-10	PH05A	Total/NA	Solid	8015B NM	17279
890-1842-11	PH06	Total/NA	Solid	8015B NM	17279
890-1842-12	PH06A	Total/NA	Solid	8015B NM	17279
890-1842-13	PH07	Total/NA	Solid	8015B NM	17279
890-1842-14	PH07A	Total/NA	Solid	8015B NM	17279
MB 880-17279/1-A	Method Blank	Total/NA	Solid	8015B NM	17279
LCS 880-17279/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17279
LCSD 880-17279/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17279
890-1842-1 MS	PH01	Total/NA	Solid	8015B NM	17279
890-1842-1 MSD	PH01	Total/NA	Solid	8015B NM	17279

#### Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Total/NA	Solid	8015 NM	
890-1842-2	PH01A	Total/NA	Solid	8015 NM	
390-1842-3	PH02	Total/NA	Solid	8015 NM	
390-1842-4	PH02A	Total/NA	Solid	8015 NM	
890-1842-5	PH03	Total/NA	Solid	8015 NM	
890-1842-6	PH03A	Total/NA	Solid	8015 NM	
890-1842-7	PH04	Total/NA	Solid	8015 NM	
390-1842-8	PH04A	Total/NA	Solid	8015 NM	
890-1842-9	PH05	Total/NA	Solid	8015 NM	
890-1842-10	PH05A	Total/NA	Solid	8015 NM	
390-1842-11	PH06	Total/NA	Solid	8015 NM	
390-1842-12	PH06A	Total/NA	Solid	8015 NM	
390-1842-13	PH07	Total/NA	Solid	8015 NM	
890-1842-14	PH07A	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 17334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Soluble	Solid	DI Leach	
890-1842-2	PH01A	Soluble	Solid	DI Leach	
MB 880-17334/1-A	Method Blank	Soluble	Solid	DI Leach	

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 Client: WSP USA Inc.
 Job ID: 890-1842-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

HPLC/IC (Continued)

#### Leach Batch: 17334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-17334/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17334/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1840-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1840-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Leach Batch: 17336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1842-3	PH02	Soluble	Solid	DI Leach	
890-1842-4	PH02A	Soluble	Solid	DI Leach	
890-1842-5	PH03	Soluble	Solid	DI Leach	
890-1842-6	PH03A	Soluble	Solid	DI Leach	
890-1842-7	PH04	Soluble	Solid	DI Leach	
890-1842-8	PH04A	Soluble	Solid	DI Leach	
890-1842-9	PH05	Soluble	Solid	DI Leach	
890-1842-10	PH05A	Soluble	Solid	DI Leach	
890-1842-11	PH06	Soluble	Solid	DI Leach	
890-1842-12	PH06A	Soluble	Solid	DI Leach	
890-1842-13	PH07	Soluble	Solid	DI Leach	
890-1842-14	PH07A	Soluble	Solid	DI Leach	
MB 880-17336/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17336/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17336/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1842-3 MS	PH02	Soluble	Solid	DI Leach	
890-1842-3 MSD	PH02	Soluble	Solid	DI Leach	
890-1842-13 MS	PH07	Soluble	Solid	DI Leach	
890-1842-13 MSD	PH07	Soluble	Solid	DI Leach	

#### Analysis Batch: 17415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-1	PH01	Soluble	Solid	300.0	17334
890-1842-2	PH01A	Soluble	Solid	300.0	17334
MB 880-17334/1-A	Method Blank	Soluble	Solid	300.0	17334
LCS 880-17334/2-A	Lab Control Sample	Soluble	Solid	300.0	17334
LCSD 880-17334/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17334
890-1840-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	17334
890-1840-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17334

#### Analysis Batch: 17522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1842-3	PH02	Soluble	Solid	300.0	17336
890-1842-4	PH02A	Soluble	Solid	300.0	17336
890-1842-5	PH03	Soluble	Solid	300.0	17336
890-1842-6	PH03A	Soluble	Solid	300.0	17336
890-1842-7	PH04	Soluble	Solid	300.0	17336
890-1842-8	PH04A	Soluble	Solid	300.0	17336
890-1842-9	PH05	Soluble	Solid	300.0	17336
890-1842-10	PH05A	Soluble	Solid	300.0	17336
890-1842-11	PH06	Soluble	Solid	300.0	17336
890-1842-12	PH06A	Soluble	Solid	300.0	17336
890-1842-13	PH07	Soluble	Solid	300.0	17336
890-1842-14	PH07A	Soluble	Solid	300.0	17336

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# **QC Association Summary**

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

### **HPLC/IC (Continued)**

# **Analysis Batch: 17522 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17336/1-A	Method Blank	Soluble	Solid	300.0	17336
LCS 880-17336/2-A	Lab Control Sample	Soluble	Solid	300.0	17336
LCSD 880-17336/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17336
890-1842-3 MS	PH02	Soluble	Solid	300.0	17336
890-1842-3 MSD	PH02	Soluble	Solid	300.0	17336
890-1842-13 MS	PH07	Soluble	Solid	300.0	17336
890-1842-13 MSD	PH07	Soluble	Solid	300.0	17336

Client: WSP USA Inc.

Project/Site: Corral Canyon 10 East

Job ID: 890-1842-1 SDG: 31403236.022.0129 task 13.02

**Client Sample ID: PH01** 

Date Collected: 01/12/22 09:10 Date Received: 01/18/22 11:51

Lab Sample ID: 890-1842-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17113	01/21/22 12:09	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/21/22 16:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/21/22 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 13:22	CH	XEN MID

Lab Sample ID: 890-1842-2

Matrix: Solid

Client Sample ID: PH01A Date Collected: 01/12/22 09:12

Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17113	01/21/22 12:09	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/21/22 16:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/21/22 23:44	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 13:30	CH	XEN MID

**Client Sample ID: PH02** Lab Sample ID: 890-1842-3 Date Collected: 01/12/22 09:17

Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17113	01/21/22 12:09	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/21/22 17:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 00:05	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 11:18	SC	XEN MID

Client Sample ID: PH02A Lab Sample ID: 890-1842-4 Date Collected: 01/12/22 09:19

Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17113	01/21/22 12:09	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/21/22 17:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID

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**Matrix: Solid** 

#### Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: PH02A

Date Collected: 01/12/22 09:19 Date Received: 01/18/22 11:51

Lab Sample ID: 890-1842-4

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 00:27	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 11:41	SC	XEN MID

**Client Sample ID: PH03** Lab Sample ID: 890-1842-5

Date Collected: 01/12/22 09:22 Date Received: 01/18/22 11:51

Batch Batch Dilution Batch Prepared Prep Type Method Run Number or Analyzed Type Factor Analyst Lab Total/NA 5035 17169 XEN MID Prep 01/19/22 13:48 KL Total/NA Analysis 8021B 17429 01/21/22 17:23 KL XEN MID 1 Total/NA Total BTEX XEN MID Analysis 1 17647 01/24/22 17:08 AJ XEN MID Total/NA Analysis 8015 NM 01/24/22 16:33 1 17641 AJXEN MID Total/NA Prep 8015NM Prep 17279 01/19/22 13:58 DM XEN MID Total/NA Analysis 8015B NM 17443 01/22/22 00:49 AJSoluble Leach DI Leach 17336 01/20/22 09:15 CH XEN MID 01/23/22 11:48 XEN MID Soluble Analysis 300.0 1 17522 SC

Client Sample ID: PH03A Lab Sample ID: 890-1842-6 Date Collected: 01/12/22 09:24 **Matrix: Solid** 

Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 17:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 01:11	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 11:56	SC	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-1842-7

Date Collected: 01/12/22 09:35 Date Received: 01/18/22 11:51

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 18:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 01:33	AJ	XEN MID

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# **Lab Chronicle**

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: PH04** 

Date Collected: 01/12/22 09:35 Date Received: 01/18/22 11:51

Lab Sample ID: 890-1842-7

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			17336	01/20/22 09:15	СН	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 12:03	SC	XEN MID

Client Sample ID: PH04A Lab Sample ID: 890-1842-8 **Matrix: Solid** 

Date Collected: 01/12/22 09:37 Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 18:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 01:54	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 12:26	SC	XEN MID

**Client Sample ID: PH05** Lab Sample ID: 890-1842-9

Date Collected: 01/12/22 09:47 **Matrix: Solid** Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 18:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 02:16	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 12:33	SC	XEN MID

Client Sample ID: PH05A Lab Sample ID: 890-1842-10

Date Collected: 01/12/22 09:50 Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 19:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 02:38	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 12:41	SC	XEN MID

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Client: WSP USA Inc.

Soluble

Analysis

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Job ID: 890-1842-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02 **Client Sample ID: PH06** 

Lab Sample ID: 890-1842-11

Date Collected: 01/12/22 10:00 **Matrix: Solid** Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 19:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 03:21	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	СН	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 12:49	SC	XEN MID

Client Sample ID: PH06A Lab Sample ID: 890-1842-12

Date Collected: 01/12/22 10:02 **Matrix: Solid** Date Received: 01/18/22 11:51

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Prep 5035 XEN MID Total/NA 17169 01/19/22 13:48 KL 8021B Total/NA 01/21/22 19:46 XEN MID Analysis 1 17429 KL Total/NA Total BTEX 01/24/22 17:08 XEN MID Analysis 1 17647 A.I XEN MID Total/NA Analysis 8015 NM 17641 01/24/22 16:33 Total/NA 17279 01/19/22 13:58 XEN MID Prep 8015NM Prep DM Total/NA Analysis 8015B NM 17443 01/22/22 03:43 AJ XEN MID Soluble XEN MID Leach DI Leach 17336 01/20/22 09:15 CH

1 Lab Sample ID: 890-1842-13 **Client Sample ID: PH07** 

Date Collected: 01/12/22 10:07 Date Received: 01/18/22 11:51

17522

01/23/22 12:56

SC

XEN MID

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 20:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	CH	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 13:04	SC	XEN MID

**Client Sample ID: PH07A** Lab Sample ID: 890-1842-14

Date Collected: 01/12/22 10:10 Matrix: Solid Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17169	01/19/22 13:48	KL	XEN MID
Total/NA	Analysis	8021B		1	17429	01/21/22 20:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID

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### **Lab Chronicle**

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

**Client Sample ID: PH07A** 

Lab Sample ID: 890-1842-14

Matrix: Solid

Date Collected: 01/12/22 10:10 Date Received: 01/18/22 11:51

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17279	01/19/22 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17443	01/22/22 04:26	AJ	XEN MID
Soluble	Leach	DI Leach			17336	01/20/22 09:15	СН	XEN MID
Soluble	Analysis	300.0		1	17522	01/23/22 13:26	SC	XEN MID

#### Laboratory References:

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

# **Accreditation/Certification Summary**

Job ID: 890-1842-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

#### **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	• •	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
7 triary 313 ivicti loa				
8015 NM		Solid	Total TPH	

# **Method Summary**

Client: WSP USA Inc. Job ID: 890-1842-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

# **Sample Summary**

Client: WSP USA Inc.

Project/Site: Corral Canyon 10 East

Job ID: 890-1842-1

SDG: 31403236.022.0129 task 13.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1842-1	PH01	Solid	01/12/22 09:10	01/18/22 11:51	1
890-1842-2	PH01A	Solid	01/12/22 09:12	01/18/22 11:51	2
890-1842-3	PH02	Solid	01/12/22 09:17	01/18/22 11:51	1
890-1842-4	PH02A	Solid	01/12/22 09:19	01/18/22 11:51	2
890-1842-5	PH03	Solid	01/12/22 09:22	01/18/22 11:51	1
890-1842-6	PH03A	Solid	01/12/22 09:24	01/18/22 11:51	2
890-1842-7	PH04	Solid	01/12/22 09:35	01/18/22 11:51	1
890-1842-8	PH04A	Solid	01/12/22 09:37	01/18/22 11:51	2
890-1842-9	PH05	Solid	01/12/22 09:47	01/18/22 11:51	1
890-1842-10	PH05A	Solid	01/12/22 09:50	01/18/22 11:51	2
890-1842-11	PH06	Solid	01/12/22 10:00	01/18/22 11:51	1
890-1842-12	PH06A	Solid	01/12/22 10:02	01/18/22 11:51	2
890-1842-13	PH07	Solid	01/12/22 10:07	01/18/22 11:51	1
890-1842-14	PH07A	Solid	01/12/22 10:10	01/18/22 11:51	2

City, State ZIP: Address: Company Name:

Carlsbad, NM 88220 3104 E Greene St XTO Eneergy, INC

3300 North A Street Building 1, unit 222

Project Manager: Company Name: Address:

Kalei Jennings

WSP USA

ABORATORIES

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www.xenco.com

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Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody
	Work Orc

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Bill to: (if different)

Adrian Baker

Program: UST/PST State of Project:

> ☐RP ☐rownfields ☐RC Work Order Comments

¶perfund

Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

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1631 / 245.1 / 7470 / 7471 : Hg		Cu Pb Mn Mo Ni Se Ag Ti U	Cd Cr Co C	Ba Be	Sb As	111	TCLP / SPLP 6010: 8RCRA	CLP / SPL		(s) to be an	(s) and Meta	Circle Method(s) and Metal(s) to be analyzed
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Work Order Notes		ANALYSIS REQUEST	Ą				Turn Around	Tu		on 10 East	Corral Canyon 10 East	Project Name:
Other:	Deliverables: EDD ADaP	Delivera			p.com	sw@st	Email: Kalei.jennings@wsp.com	Email:		ß	817-683-2503	Phone:
RP L[vel IV	evel IIIT/UST 1	Reportin	20	Carlsbad, NM 88220	Carlsbad		City, State ZIP:			(as 79705	Midland, Texas 79705	City, State ZIP:
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	It assigns standard terms and conditions educations and conditions education of the control forced unless previously negotiated.		company to Xenco, its affi s or expenses incurred by ed to Xenco, but not analy	hase order from client onsibility for any losse or each sample submit	titutes a valid pure t assume any resp ad a charge of \$5 f	of samples const ples and shall not o each project an	nent and relinquishment only for the cost of sam \$75.00 will be applied t	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. 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 a 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 a
Na Sr Tl Sn ∪ V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Mo Ni K Se Ag SiO2		Sb As Ba Be B	RCRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA	8RCRA 13PPM TCLP/SPLP	8 analyzed	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s)
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AFE: 30-015-47217	AFE			,	Rush:			P.O. Number:
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Work Order Notes		ANALYSIS REQUEST		Turn Around	Tu	*	Corral Canyon 10 East	Name:
Other:	Deliverables: EDD ADaPT	Delive	vsp.com	Email: Kalei.jennings@wsp.com	Email:		817-683-2503	
THP L[vel IV	Reporting:Level III		Carlsbad, NM 88220	City, State ZIP:			Midland, Texas 79705	e ZIP:
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ents	Work Order Comments		Adrian Baker	Bill to: (if different)			Kalei Jennings	Project Manager: Kal
.ge2_ of2_	)) www.xenco.com <sup>2</sup> age	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	30-355-0900) Atlanta,GA	7550) Phoenix,AZ (48	os,NM (575-392-	Hobb		LO DE
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	N	Received by: (Signature)	nt of samples constitutes a valid purchase order framples and shall not assume any responsibility for to each project and a charge of \$5 for each samp	8RCRA 13PPM Texas 11 A analyzed TCLP / SPLP 6010: 8RCRA		100				1.14.22 11:00 0-2.5	Time Date Sampled Depth	N/A Total Containers:	ii (	1,2	Thermometer ID	ank: (Yes No Wet Ice: Yes) No	Due Date:	Rush:	Routine 🔽	22 #003H Turn Around	Email Anna. Byers	City, State ZIP	Address	Company Name	Ball to: (if different)	Hobbs, NM (575-392-7550) Phoen
0) 4	1/18/12 11:50 2	Date/Time Relinquished by	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	s 11 Al Sb As Ba Be B Cd Ca Cr Co (RCRA Sb As Ba Be Cd Cr Co Cu Pb I			1000			- X X X	Number TPH (E BTEX (	PA 8	015) 0=800 PA 30	21)	ners					ANALY	Anna.Byers@wsp.com,	Carlsbad, NM 88220	5315 Buena Vista Dr.	WPX Energy	erent) Jim Raley	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)
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Decirical Data OC4448 Day 2018 4		nature) Date/Time		02 Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg							Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the				API	AFE	CC 1061208201	Work Order Notes	ADaPT — Other:	<del>-</del>		ownfields RRC Superfund	ents	com rageu

Work Order No:

**Eurofins Carlsbad** 

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laboratory does not currently be brought to Eurofins South	if-custody If the ion status should	er chain-c accreditati	rded undi	is forwar Any cha	hipment i: ovided /	sample sh will be pn	nuctions:	boratorie other inst	intract la atory or i itral	ut subcc al labora uth Cen	a upon ou uth Centr rofins So	ofins Sou ce to Eur	creditation co lck to the Eur aid complican	analyte & act e shipped ba attesting to sa	p of method nples must b of Custody a	places the ownershing analyzed, the sains the signed Chair	South Central p sts/matrix bein nt to date retur	Noter Since laboratory accreditations are subject to change Eurofins South Central 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 South Central laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins South Central attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins South Central.	e <sup>.</sup> Since laboratory accreintain accreditation in the intral attention immediately
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				$\dashv$				×	×	×	×		Solid		09 37 Mountain	1/12/22			PH04A (890-1842-8)
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V MCAA W pH 4-5 Z other (specify)	J - DI Water K EDTA L EDA	tainers		<del></del>				OD) BTE				e (Yes o				Project#: 89000004	89 PI		Project Name. Corral Canyon 10 East
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					sted	∆nalysis Requested	/sis R	Analy								Due Date Requested 1/24/2022	_1 0	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	1211 W Florida Ave
	Job#: 890-1842-1						<sup>note).</sup> LAP - Texas	e note).	Required (See uisiana, NE	ns Requ	Accreditations Required (See NELAP - Louisiana, NE	<b>N</b> E A∝						Testing South Centr	Eurofins Environment Testing South Centr
	Page: Page 1 of 2			გ ∍	State of Origin New Mexico	State New		com	ofinset	@eur	kramer	E-Mail jessica kramer@eurofinset com	Ļ			Prione			Shipping/Receiving
	COC No: 890-591 1		\$)	ing No(s	Carrier Tracking No(s)	Cami				ģí	Jessic	Lab PM Kramer Jessica	-			Sampler	S	n (Sub Contract Lab)	Client Information
1S Environment Testing America	💸 eurofins									1.L	corc	Rec	stody	of Cu	Chain of Custody Record	0		) Fax 575-988-3199	1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199
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Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199 **Eurofins Carlsbad** 

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	Seurofins Environment Testing America

State Zip: T**X**, 79701 Note Since laboratory accreditations are subject to change Eurofins South Central 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 South Central laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins South Central attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins South Central. Empty Kit Relinquished by PH07A (890-1842-14) PH07 (890-1842-13) PH06A (890-1842-12) PH06 (890-1842-11) PH05A (890-1842-10) Sample Identification - Client ID (Lab ID) Project Name: Corral Canyon 10 East Midland Deliverable Requested | II III IV Other (specify) Possible Hazard Identification Client Information elinquished by 1211 W Florida Ave Eurofins Environment Testing South Centr elinquished by: l32-704-5440(Tel) linquished by nconfirmed hipping/Receiving  $\geq$ (Sub Contract Lab Custody Seal No 9 Project #: 89000004 Date/Time Primary Deliverable Rank Phone Date/Time FAT Requested (days): Due Date Requested 1/24/2022 Sample Date 1/12/22 1/12/22 1/12/22 1/12/22 1/12/22 Date Mountain 10 00 Mountain 10 10 Mountain 10 07 Mountain 10 02 Mountain Sample 09 50 (C=comp, G=grab) Sample Preservation Code Туре Company Company Company Matrix Solid Solid Solid Solid Solid jessica.kramer@eurofinset com Kramer Jessica l ime. Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks:  $\times$ 8015MOD\_NM/8015NM\_S\_Prep (MOD) Full TPH × × × × × 8016MOD\_Calc × × × 300\_ORGFM\_28D/DI\_LEACH Chloride × × × 8021B/5035FP\_Calc (MOD) BTEX × × Analysis Requested Total\_BTEX\_GCV × × × × × State of Origin New Mexico Carrier Tracking No(s) Date/Time  $\widetilde{\mathcal{Q}}$ <u>235</u> A HCL
B NaCHA
C ZA Acetate
D Nitric Acid
E NaBO4
F MeOH
G Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA COC No 890-591 2 Page 2 of 2 Preservation Codes 390-1842-1 1 Instructions/Note M - Hexane
N None
O - AsNaO2
P NaZO4S
Q - NaZSO3
R NaZSO3
S - HZSO4
T TSP Dodecahydrate
U Acetone
V MCAA
W - pH 4-5
Z other (specify) Ver: 06/08/2021 Months

# **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1842-1

SDG Number: 31403236.022.0129 task 13.02

Login Number: 1842 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1842-1

SDG Number: 31403236.022.0129 task 13.02

**List Source: Eurofins Midland** List Creation: 01/19/22 01:26 PM

Creator: Kramer, Jessica

Login Number: 1842

List Number: 2

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

<6mm (1/4").

Released to Imaging: 4/20/2022 2:28:12 PM



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1753-1

Laboratory Sample Delivery Group: 31403236.022.0129

Client Project/Site: Corral Canyon 10 East

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 1/3/2022 1:17:39 PM

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

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Client: WSP USA Inc.

Project/Site: Corral Canyon 10 East

Laboratory Job ID: 890-1753-1

SDG: 31403236.022.0129

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# **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1753-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

#### **Qualifiers**

**GC VOA** Qualifier

LCS and/or LCSD is outside acceptance limits, low biased. F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

**Qualifier Description** 

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

#### GC Semi VOA

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

#### **HPLC/IC**

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

#### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac Dilution Factor DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

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

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)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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)

Reporting Limit or Requested Limit (Radiochemistry) RI

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

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

**TNTC** Too Numerous To Count

#### Case Narrative

Client: WSP USA Inc.

Job ID: 890-1753-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

Job ID: 890-1753-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1753-1

#### Receipt

The samples were received on 12/23/2021 9:57 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 2.2°C

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-1753-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15651 and analytical batch 880-15623 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-15714/21), (CCV 880-15714/34), (LCS 880-15693/1-A), (LCSD 880-15693/2-A) and (880-9683-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15693 and analytical batch 880-15714 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15719 and analytical batch 880-15825 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-15719/1-A). Evidence of matrix interferences is not obvious.

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

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

Matrix: Solid

Lab Sample ID: 890-1753-1

 Client: WSP USA Inc.
 Job ID: 890-1753-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129

Client Sample ID: SS01

Date Collected: 12/21/21 11:00 Date Received: 12/23/21 09:57

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0132		0.00202	mg/Kg		12/28/21 13:02	12/29/21 06:11	1
Toluene	0.0502		0.00202	mg/Kg		12/28/21 13:02	12/29/21 06:11	1
Ethylbenzene	0.0109		0.00202	mg/Kg		12/28/21 13:02	12/29/21 06:11	1
m-Xylene & p-Xylene	0.00516		0.00403	mg/Kg		12/28/21 13:02	12/29/21 06:11	1
o-Xylene	0.0123		0.00202	mg/Kg		12/28/21 13:02	12/29/21 06:11	1
Xylenes, Total	0.0175		0.00403	mg/Kg		12/28/21 13:02	12/29/21 06:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130			12/28/21 13:02	12/29/21 06:11	1
1,4-Difluorobenzene (Surr)	81		70 - 130			12/28/21 13:02	12/29/21 06:11	1
Method: Total BTEX - Total BTEX	( Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0918		0.00403	mg/Kg			01/03/22 12:57	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
							Analyzed	Dil Fac
5 5	<49.9	U	49.9	mg/Kg		12/29/21 10:13	Analyzed 01/01/22 07:43	
5 5	<49.9 <49.9		49.9	mg/Kg				1
(GRO)-C6-C10 Diesel Range Organics (Over		U				12/29/21 10:13	01/01/22 07:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U U	49.9	mg/Kg		12/29/21 10:13 12/29/21 10:13	01/01/22 07:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U U	49.9 49.9	mg/Kg		12/29/21 10:13 12/29/21 10:13 12/29/21 10:13	01/01/22 07:43 01/01/22 07:43 01/01/22 07:43	1 1 1 1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<49.9 <49.9 <b>%Recovery</b>	U U	49.9 49.9 <i>Limits</i>	mg/Kg		12/29/21 10:13 12/29/21 10:13 12/29/21 10:13 Prepared	01/01/22 07:43 01/01/22 07:43 01/01/22 07:43 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<49.9 <49.9 <b>%Recovery</b> 103 125	U U <b>Qualifier</b>	49.9 49.9  Limits 70 - 130	mg/Kg		12/29/21 10:13 12/29/21 10:13 12/29/21 10:13 Prepared 12/29/21 10:13	01/01/22 07:43 01/01/22 07:43 01/01/22 07:43 Analyzed 01/01/22 07:43	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9  **Recovery 103 125  **Domatography -	U U <b>Qualifier</b>	49.9 49.9  Limits 70 - 130	mg/Kg	D	12/29/21 10:13 12/29/21 10:13 12/29/21 10:13 Prepared 12/29/21 10:13	01/01/22 07:43 01/01/22 07:43 01/01/22 07:43 Analyzed 01/01/22 07:43	Dil Fac

Client Sample ID: SS02 Lab

Date Collected: 12/21/21 11:02 Date Received: 12/23/21 09:57

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/28/21 13:02	12/29/21 06:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/28/21 13:02	12/29/21 06:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/28/21 13:02	12/29/21 06:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			12/28/21 13:02	12/29/21 06:31	

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Lab Sample ID: 890-1753-2

Sample Depth: 0.5

Lab Sample ID: 890-1753-2

# **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1753-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

**Client Sample ID: SS02** 

Date Collected: 12/21/21 11:02 Matrix: Solid Date Received: 12/23/21 09:57

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	106		70 - 130			12/28/21 13:02	12/29/21 06:31	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/03/22 12:57	-
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			01/03/22 13:55	
•				99			01/00/22 10:00	
: Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)		99			01/03/22 10:00	
	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Analyte</b> Gasoline Range Organics	• • •	Qualifier			<u>D</u>	Prepared 12/29/21 10:13		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	RL 49.9	<mark>Unit</mark> mg/Kg	<u> </u>	12/29/21 10:13	<b>Analyzed</b> 01/01/22 08:24	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9   <49.9	Qualifier U U U	RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	12/29/21 10:13 12/29/21 10:13	Analyzed 01/01/22 08:24 01/01/22 08:24	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9   <49.9   <49.9	Qualifier U U U	RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	12/29/21 10:13 12/29/21 10:13 12/29/21 10:13	Analyzed 01/01/22 08:24 01/01/22 08:24 01/01/22 08:24	Dil Fac

wethod: 300.0 - Anions, ion Chron	natograpny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28600	250	mg/Kg			12/31/21 02:03	50

# **Surrogate Summary**

Job ID: 890-1753-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID C	Client Sample ID	(70-130)	(70-130)	
880-9683-A-1-A MS	Matrix Spike	132 S1+	73	
880-9683-A-1-B MSD	Matrix Spike Duplicate	108	95	
890-1753-1	SS01	195 S1+	81	
890-1753-2	SS02	128	106	
890-1757-A-1-B MS	Matrix Spike	116	81	
890-1757-A-1-C MSD N	Matrix Spike Duplicate	108	98	
_CS 880-15651/1-A L	ab Control Sample	101	107	
LCS 880-15651/1-A L	ab Control Sample	110	103	
LCS 880-15693/1-A L	ab Control Sample	99	96	
LCSD 880-15651/2-A L	ab Control Sample Dup	103	95	
LCSD 880-15651/2-A L	ab Control Sample Dup	109	94	
LCSD 880-15693/2-A L	ab Control Sample Dup	146 S1+	109	
MB 880-15624/5-A	Method Blank	116	113	
MB 880-15651/5-A	Method Blank	108	108	
MB 880-15651/5-A	Method Blank	104	102	
Surrogate Legend				
BFB = 4-Bromofluorobenzene (	Surr)			
DFBZ = 1,4-Difluorobenzene (S	Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9699-A-1-D MS	Matrix Spike	105	113	
880-9699-A-1-E MSD	Matrix Spike Duplicate	97	103	
890-1753-1	SS01	103	125	
890-1753-2	SS02	96	117	
LCS 880-15719/2-A	Lab Control Sample	119	120	
LCSD 880-15719/3-A	Lab Control Sample Dup	113	108	
MB 880-15719/1-A	Method Blank	124	156 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Lab Sample ID: MB 880-15624/5-A

**Matrix: Solid** 

Xylenes, Total

Analysis Batch: 15623

# **QC Sample Results**

Client: WSP USA Inc. Job ID: 890-1753-1 SDG: 31403236.022.0129 Project/Site: Corral Canyon 10 East

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15624

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/21 10:04	12/28/21 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 10:04	12/28/21 13:45	1

<0.00400 U 0.00400 12/28/21 10:04 12/28/21 13:45 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/28/21 10:	04 12/28/21 13:45	1
1,4-Difluorobenzene (Surr)	113		70 - 130	12/28/21 10:	04 12/28/21 13:45	1

Lab Sample ID: MB 880-15651/5-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 15623 Prep Batch: 15651

	IVID	IVID							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1	
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/28/21 13:02	12/29/21 00:39	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 00:39	1	
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		12/28/21 13:02	12/29/21 00:39	1	

мв мв

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/28/21 13:02	12/29/21 00:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130	12/28/21 13:02	12/29/21 00:39	1

Lab Sample ID: MB 880-15651/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 15714** 

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/28/21 13:02	12/29/21 12:43	1

m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/28/21 13:02 12/29/21 12:43 o-Xylene <0.00200 U 0.00200 12/29/21 12:43 mg/Kg 12/28/21 13:02 Xylenes, Total <0.00400 U 0.00400 12/28/21 13:02 12/29/21 12:43 mg/Kg

	IVID IVID				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	70 - 130	12/28/21 13:02	12/29/21 12:43	1
1,4-Difluorobenzene (Surr)	102	70 - 130	12/28/21 13:02	12/29/21 12:43	1

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Prep Batch: 15651

Job ID: 890-1753-1 Client: WSP USA Inc. SDG: 31403236.022.0129 Project/Site: Corral Canyon 10 East

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

Lab Sample ID: LCS 880-15651/1-A

**Matrix: Solid** 

Analysis Batch: 15623

<b>Client Sample</b>	ID: Lab	Control	Sampl
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Prep Type: Total/NA

Prep Batch: 15651

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08352		mg/Kg		84	70 - 130	
Toluene	0.100	0.07913		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.07795		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	0.200	0.1548		mg/Kg		77	70 - 130	
o-Xylene	0.100	0.07982		mg/Kg		80	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 15651

Lab Sample ID: LCS 880-15651/1-A **Matrix: Solid** 

Lab Sample ID: LCSD 880-15651/2-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 15714

Analysis Batch: 15623

Analysis Batch: 15714

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.05617	*_	mg/Kg		56	70 - 130	
Toluene	0.100	0.05333	*_	mg/Kg		53	70 - 130	
Ethylbenzene	0.100	0.05221	*_	mg/Kg		52	70 - 130	
m-Xylene & p-Xylene	0.200	0.1064	*_	mg/Kg		53	70 _ 130	
o-Xylene	0.100	0.05333	*_	mg/Kg		53	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15651

Spike LCSD LCSD %Rec. Limits Limit Analyte Added Result Qualifier RPD Unit %Rec Benzene 0.100 0.07468 mg/Kg 75 70 - 130 11 35 Toluene 0.100 0.07364 mg/Kg 74 70 - 130 35 Ethylbenzene 0.100 0.07284 mg/Kg 73 70 - 130 35 m-Xylene & p-Xylene 0.200 0.1461 mg/Kg 73 70 - 130 35 0.100 0.07519 o-Xylene mg/Kg 75 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15651

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.05358	*_	mg/Kg		54	70 - 130	5	35
Toluene	0.100	0.05006	*_	mg/Kg		50	70 - 130	6	35
Ethylbenzene	0.100	0.04959	*_	mg/Kg		50	70 - 130	5	35

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Lab Sample ID: LCSD 880-15651/2-A

Job ID: 890-1753-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

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

Lab Sample ID: LCSD 880-15651/2-A

**Matrix: Solid** 

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15651

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.200 0.1057 \*-53 70 - 130 35 m-Xylene & p-Xylene mg/Kg o-Xylene 0.100 0.05187 \*mg/Kg 52 70 - 130

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 109 1,4-Difluorobenzene (Surr) 94 70 - 130

Lab Sample ID: 890-1757-A-1-B MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 15623

Prep Type: Total/NA

Prep Batch: 15651

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0998	0.05503	F1	mg/Kg		55	70 - 130	
Toluene	<0.00200	U F1	0.0998	0.05714	F1	mg/Kg		57	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0998	0.05026	F1	mg/Kg		50	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1116	F1	mg/Kg		56	70 - 130	
o-Xylene	<0.00200	U F1	0.0998	0.05151	F1	mg/Kg		52	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1 4-Difluorobenzene (Surr)	81	70 - 130

Lab Sample ID: 890-1757-A-1-C MSD

**Matrix: Solid** 

Analysis Batch: 15623

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 15651

	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	0.06147	F1	mg/Kg		61	70 - 130	11	35
Toluene	<0.00200	U F1	0.101	0.05994	F1	mg/Kg		59	70 - 130	5	35
Ethylbenzene	<0.00200	U F1	0.101	0.06056	F1	mg/Kg		60	70 - 130	19	35
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1227	F1	mg/Kg		61	70 - 130	9	35
o-Xylene	<0.00200	U F1	0.101	0.06165	F1	mg/Kg		61	70 - 130	18	35
Ethylbenzene m-Xylene & p-Xylene	<0.00200 <0.00399	U F1 U F1	0.101 0.202	0.06056 0.1227	F1 F1	mg/Kg mg/Kg		60 61	70 <sub>-</sub> 130 70 <sub>-</sub> 130	19	35 35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1.4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCS 880-15693/1-A

**Matrix: Solid** 

Analysis Batch: 15714

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

Prep Batch: 15693

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client: WSP USA Inc. Job ID: 890-1753-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

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

Lab Sample ID: LCSD 880-15693/2-A

**Matrix: Solid** 

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15693

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07766		mg/Kg		78	70 - 130	NaN	35
Toluene	0.100	0.07298		mg/Kg		73	70 - 130	NaN	35
Ethylbenzene	0.100	0.09873		mg/Kg		99	70 - 130	NaN	35
m-Xylene & p-Xylene	0.200	0.1998		mg/Kg		100	70 - 130	NaN	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	NaN	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 880-9683-A-1-A MS

**Matrix: Solid** 

Analysis Batch: 15714

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15693

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0996	0.03709	F1	mg/Kg		37	70 - 130	
Toluene	<0.00199	U F1	0.0996	0.05151	F1	mg/Kg		52	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0996	0.05531	F1	mg/Kg		56	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1246	F1	mg/Kg		63	70 - 130	
o-Xylene	<0.00199	U F1	0.0996	0.06210	F1	mg/Kg		62	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130		
1 4-Difluorobenzene (Surr)	7.3		70 - 130		

Lab Sample ID: 880-9683-A-1-B MSD

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15693

, and the second	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0998	0.06682	F2 F1	mg/Kg		67	70 - 130	57	35
Toluene	<0.00199	U F1	0.0998	0.06868	F1	mg/Kg		69	70 - 130	29	35
Ethylbenzene	<0.00199	U F1	0.0998	0.06890	F1	mg/Kg		69	70 - 130	22	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1420		mg/Kg		71	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.0998	0.07328		mg/Kg		73	70 - 130	17	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Job ID: 890-1753-1 Client: WSP USA Inc. SDG: 31403236.022.0129 Project/Site: Corral Canyon 10 East

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

Lab Sample ID: MB 880-15719/1-A

Analysis Batch: 15825

**Matrix: Solid** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15719

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/29/21 10:13	01/01/22 02:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		12/29/21 10:13	01/01/22 02:54	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/29/21 10:13	01/01/22 02:54	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			12/29/21 10:13	01/01/22 02:54	1

Lab Sample ID: LCS 880-15719/2-A

**Matrix: Solid** Analysis Batch: 15825

o-Terphenyl

**Client Sample ID: Lab Control Sample** 

01/01/22 02:54

12/29/21 10:13

Prep Type: Total/NA Prep Batch: 15719

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1031 103 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1271 mg/Kg 127 70 - 130C10-C28)

70 - 130

156 S1+

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 119 70 - 130 o-Terphenyl 120 70 - 130

Lab Sample ID: LCSD 880-15719/3-A

**Matrix: Solid** 

**Analysis Batch: 15825** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15719

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1034		mg/Kg		103	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1280		mg/Kg		128	70 - 130	1	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-9699-A-1-D MS

**Matrix: Solid** 

Analysis Batch: 15825

<b>Client Samp</b>	le I	D: I	Matrix	Spike
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Prep Type: Total/NA

Prep Batch: 15719

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	790.6		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	72.1	F1	996	651.3	F1	mg/Kg		58	70 - 130	

Job ID: 890-1753-1

Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

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

Lab Sample ID: 880-9699-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 15825 Prep Batch: 15719

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: 880-9699-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** Prep Type: Total/NA Analysis Batch: 15825 Prep Batch: 15719

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U F1 F2 999 587.9 F1 F2 59 70 - 13029 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 600.2 F1 72.1 F1 mg/Kg 53 70 - 1308 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 97 70 - 130 1-Chlorooctane 103 70 - 130 o-Terphenyl

мв мв

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15694/1-A Client Sample ID: Method Blank **Matrix: Solid** 

**Prep Type: Soluble** 

**Analysis Batch: 15818** 

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 12/30/21 23:40

Lab Sample ID: LCS 880-15694/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 15818** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 259.4 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-15694/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 15818** 

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 260.1 104 90 - 110 20 mg/Kg

Lab Sample ID: 890-1751-A-1-F MS Client Sample ID: Matrix Spike

**Matrix: Solid Prep Type: Soluble Analysis Batch: 15818** 

Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits F1 12500 Chloride 33900 44650 F1 mg/Kg 90 - 110

Client: WSP USA Inc. Job ID: 890-1753-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1751-A-1-G MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 15818

<b>,</b>	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	33900	F1	12500	45280		mg/Kg		91	90 - 110	1	20

# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1753-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129

#### **GC VOA**

# Analysis Batch: 15623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Total/NA	Solid	8021B	15651
890-1753-2	SS02	Total/NA	Solid	8021B	15651
MB 880-15624/5-A	Method Blank	Total/NA	Solid	8021B	15624
MB 880-15651/5-A	Method Blank	Total/NA	Solid	8021B	15651
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	8021B	15651
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15651
890-1757-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15651
890-1757-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15651

#### Prep Batch: 15624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15624/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 15651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Total/NA	Solid	5035	<del>-</del>
890-1753-2	SS02	Total/NA	Solid	5035	
MB 880-15651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1757-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1757-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 15693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-15693/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15693/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9683-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9683-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 15714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15651/5-A	Method Blank	Total/NA	Solid	8021B	15651
LCS 880-15651/1-A	Lab Control Sample	Total/NA	Solid	8021B	15651
LCS 880-15693/1-A	Lab Control Sample	Total/NA	Solid	8021B	15693
LCSD 880-15651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15651
LCSD 880-15693/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15693
880-9683-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	15693
880-9683-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15693

#### Analysis Batch: 15908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Total/NA	Solid	Total BTEX	
890-1753-2	SS02	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 15719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Total/NA	Solid	8015NM Prep	
890-1753-2	SS02	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

1/3/2022

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# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1753-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129

# GC Semi VOA (Continued)

#### Prep Batch: 15719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15719/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15719/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15719/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 15825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Total/NA	Solid	8015B NM	15719
890-1753-2	SS02	Total/NA	Solid	8015B NM	15719
MB 880-15719/1-A	Method Blank	Total/NA	Solid	8015B NM	15719
LCS 880-15719/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15719
LCSD 880-15719/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15719
880-9699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15719
880-9699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15719

#### **Analysis Batch: 15912**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Total/NA	Solid	8015 NM	
890-1753-2	SS02	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 15694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Soluble	Solid	DI Leach	
890-1753-2	SS02	Soluble	Solid	DI Leach	
MB 880-15694/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15694/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15694/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1751-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1751-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 15818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1753-1	SS01	Soluble	Solid	300.0	15694
890-1753-2	SS02	Soluble	Solid	300.0	15694
MB 880-15694/1-A	Method Blank	Soluble	Solid	300.0	15694
LCS 880-15694/2-A	Lab Control Sample	Soluble	Solid	300.0	15694
LCSD 880-15694/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15694
890-1751-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	15694
890-1751-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15694

## **Lab Chronicle**

 Client: WSP USA Inc.
 Job ID: 890-1753-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129

Client Sample ID: SS01

Lab Sample ID: 890-1753-1

Matrix: Solid

Date Collected: 12/21/21 11:00 Date Received: 12/23/21 09:57

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 06:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15719	12/29/21 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	01/01/22 07:43	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	CH	XEN MID
Soluble	Analysis	300.0		50	15818	12/31/21 01:27	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1753-2

Date Collected: 12/21/21 11:02 Matrix: Solid

Date Received: 12/23/21 09:57

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15651	12/28/21 13:02	MR	XEN MID
Total/NA	Analysis	8021B		1	15623	12/29/21 06:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	15908	01/03/22 12:57	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/03/22 13:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15719	12/29/21 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15825	01/01/22 08:24	AJ	XEN MID
Soluble	Leach	DI Leach			15694	12/29/21 08:26	СН	XEN MID
Soluble	Analysis	300.0		50	15818	12/31/21 02:03	CH	XEN MID

**Laboratory References:** 

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

Released to Imaging: 4/20/2022 2:28:12 PM

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# **Accreditation/Certification Summary**

 Client: WSP USA Inc.
 Job ID: 890-1753-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129

# **Laboratory: Eurofins Xenco, Midland**

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

Authority	Pre	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	' '	t the laboratory to not ocium	od by the governing dutienty. The list me	ay include analytes for
the agency does not of Analysis Method	' '	Matrix	Analyte	ay molade analytes for t
0 ,	fer certification.	•	, , ,	

# **Method Summary**

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Corral Canyon 10 East

**Method Description** 

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

**Deionized Water Leaching Procedure** 

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-1753-1

SDG: 31403236.022.0129

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

ASTM

#### **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

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# **Sample Summary**

Client: WSP USA Inc.

Project/Site: Corral Canyon 10 East

Job ID: 890-1753-1

SDG: 31403236.022.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1753-1	SS01	Solid	12/21/21 11:00	12/23/21 09:57	0.5
890-1753-2	SS02	Solid	12/21/21 11:02	12/23/21 09:57	0.5

## 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 (813-620-2000)

_	Ch I	60		_	<u> </u>		_		_	_	_		_							_	_				_								
			(in c	Relinquished by:	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contropy 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									SS02	000	SS01	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.
			Sis	(Signature)	ocument and relinquiable only for the co	s) and Metal(s)	10 200.8 / 6020:	\											lification	L	Yes No	(es)	70		Gilbert Moreno		31403236.022.0129	Corral Canyon 10 East	818-683-2503	Midland, TX 79705	3300 North A Street	WSP	Kalei Jennings
			7		uishment of s st of samples applied to ea	to be ana	020:									S	,	S	Matrix	MA	N/A	S O	6	Temp Blank			.0129	10 East		705	street		
			don.	Received	samples const s and shall no ach project an		œ									12.21.21		12.21.21	Date Sampled	Tota	Corre	K		Yes No									
		_	4	Received by: (Signature)	litutes a valid p t assume any r id a charge of \$	TCLP / SP	8RCRA 13F			\   	13					11:02	- 1.00	11:00	Time Sampled	Total Containers:	Correction Factor:	2007	Thermometer ID	Wet Ice:	Due	Rush	Routine	Tu	Email				
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			33.6	Date/Time	or expensed to Xenco.	₩.	Sb As I	_			-	1			+	×	+	-	TPH (EF			)21)					-		p.com, /	Carlsbad, NM 88220	3104 E Green Street	XTO Energy	Adrian Baker
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				Relinquished by: (Signature)	tractors. It losses are will be enf	<u>⊼</u>	5									$\dagger$	+					890-1753 Chain of Custody	Ī			_		ANALYSIS REQUEST	bil.com				
				gnature	tors. It assigns standard terms and conditions see are due to circumstances beyond the control be enforced unless previously negotiated.	Mn Mo Ni Se Ag	Fe Pb Mg Mn Mo Ni							1		1	1					3 Chain						EQUES:	<u></u>	70	<u>L</u>	-	L
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51418 Rev 2				Date/Time		7471 : Hg	Zn												ments	4:30pm	TAT starts the day recevied by the							Votes		<u> </u>		fund	
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Work Order No:

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1753-1 SDG Number: 31403236.022.0129

List Source: Eurofins Xenco, Carlsbad

Login Number: 1753 List Number: 1 Creator: Clifton, Cloe

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

Euronnis Aerico, Carisbau

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#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1753-1

SDG Number: 31403236.022.0129

List Source: Eurofins Xenco, Midland

List Creation: 12/28/21 10:39 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 1753

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

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<6mm (1/4").

## **Environment Testing America**

#### **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1840-1

Laboratory SDG: 31403236.022.0129 task 13.02

Client Project/Site: Corral Canyon 10 East

For:

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

Attn: Kalei Jennings

SKRAMER

Authorized for release by: 1/24/2022 4:37:29 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Released to Imaging: 4/20/2022 2:28:12 PM

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

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

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Client: WSP USA Inc. Project/Site: Corral Canyon 10 East Laboratory Job ID: 890-1840-1 SDG: 31403236.022.0129 task 13.02

#### **Table of Contents**

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#### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

**Qualifiers** 

**GC VOA** Qualifier

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

S1-Surrogate recovery exceeds control limits, low biased.

**Qualifier Description** 

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

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL. RA. RE. IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **Practical Quantitation Limit PQL** 

**PRES** Presumptive

**Quality Control** QC RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

Job ID: 890-1840-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1840-1

#### Receipt

The samples were received on 1/18/2022 11:52 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 5.6°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17388 and analytical batch 880-17427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-17167/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17167 and analytical batch 880-17425 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17278 and analytical batch 880-17438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-1840-1) and (890-1838-A-1-E). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

#### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Lab Sample ID: 890-1840-1

Date Collected: 01/12/22 12:21 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 12:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 12:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/22 15:00	01/22/22 12:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 12:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/22 15:00	01/22/22 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			01/19/22 15:00	01/22/22 12:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/19/22 15:00	01/22/22 12:41	1
- Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Takal TDU								
Total TPH -	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang			50.0	mg/Kg			01/24/22 16:33	1
- <sup>'''</sup> -	ge Organics (D		50.0 <b>RL</b>	mg/Kg <b>Unit</b>	D	Prepared	01/24/22 16:33  Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier			<u>D</u>	Prepared 01/19/22 13:54		
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC)  Qualifier	RL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (Di Result <50.0	RO) (GC) Qualifier U	RL 50.0	Unit mg/Kg	<u>D</u>	01/19/22 13:54	<b>Analyzed</b> 01/21/22 17:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <50.0	RO) (GC) Qualifier U	RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:54	Analyzed 01/21/22 17:44 01/21/22 17:44	<b>Dil Fac</b> 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	Analyzed 01/21/22 17:44 01/21/22 17:44 01/21/22 17:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	Qualifier  U  Qualifier	RL 50.0 50.0 50.0 <i>Limits</i>	Unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared	Analyzed 01/21/22 17:44 01/21/22 17:44 01/21/22 17:44 Analyzed	Dil Face  1  1  1  Dil Face
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	ge Organics (D)  Result  <50.0  <50.0  <50.0   **Recovery  69  81	RO) (GC) Qualifier U U Qualifier S1-	RL 50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared 01/19/22 13:54	Analyzed 01/21/22 17:44 01/21/22 17:44 01/21/22 17:44  Analyzed 01/21/22 17:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D)  Result  <50.0  <50.0  <50.0   **Recovery  69  81  omatography -	RO) (GC) Qualifier U U Qualifier S1-	RL 50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared 01/19/22 13:54	Analyzed 01/21/22 17:44 01/21/22 17:44 01/21/22 17:44  Analyzed 01/21/22 17:44	Dil Fac  1  1  1  Dil Fac

**Client Sample ID: FS02** Lab Sample ID: 890-1840-2 Matrix: Solid

Date Collected: 01/12/22 12:23 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/19/22 15:00	01/22/22 13:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/19/22 15:00	01/22/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			01/19/22 15:00	01/22/22 13:09	1

**Eurofins Carlsbad** 

**Client Sample ID: FS01** 

Lab Sample ID: 890-1840-2

#### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1840-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS02** 

Date Collected: 01/12/22 12:23 Date Received: 01/18/22 11:52

Sample Depth: 1

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	97	70 - 130	01/19/22 15:00	01/22/22 13:09	

#### **Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/24/22 17:08	1

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

Analyte	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0	mg/Kg			01/24/22 16:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 18:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 18:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			01/19/22 13:54	01/21/22 18:04	1

o-Terphenyl	85

wethod: 300.0 - Allions, foli Chron	iatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2720	25.2	ma/Ka		·	01/22/22 12:14	5

70 - 130

**Client Sample ID: FS03** Lab Sample ID: 890-1840-3

Date Collected: 01/12/22 13:50 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/19/22 15:00	01/22/22 13:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 13:38	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/19/22 15:00	01/22/22 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			01/19/22 15:00	01/22/22 13:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/19/22 15:00	01/22/22 13:38	1

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	ma/Ka			01/24/22 17:08	1

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

#### **Client Sample Results**

 Client: WSP USA Inc.
 Job ID: 890-1840-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS03

Lab Sample ID: 890-1840-3

Client Sample ID: FS03

Date Collected: 01/12/22 13:50

Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 18:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 18:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			01/19/22 13:54	01/21/22 18:25	1
o-Terphenyl	88		70 - 130			01/19/22 13:54	01/21/22 18:25	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>,</b>								

Client Sample ID: FS04 Lab Sample ID: 890-1840-4

Date Collected: 01/12/22 13:52

Matrix: Solid

Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/19/22 15:00	01/22/22 14:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/19/22 15:00	01/22/22 14:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/19/22 15:00	01/22/22 14:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/19/22 15:00	01/22/22 14:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/19/22 15:00	01/22/22 14:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/19/22 15:00	01/22/22 14:06	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130			01/19/22 15:00	01/22/22 14:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/19/22 15:00	01/22/22 14:06	1
Method: Total BTEX - Total BTEX Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402		0.00402	mg/Kg		Trepared	01/24/22 17:08	
			0.00402	9/1.19			0.112.112.11.00	
	•	O) (GC) Qualifier	RL RL	Unit	D	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier			<u>D</u>	Prepared		Dil Fac
Analyte	<b>Result</b> <49.9	Qualifier U	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <49.9	Qualifier U RO) (GC) Qualifier	<b>RL</b> 49.9	Unit mg/Kg		<u> </u>	Analyzed 01/24/22 16:33	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 e Organics (D Result	Qualifier U  RO) (GC) Qualifier U	RL 	Unit mg/Kg		Prepared	Analyzed 01/24/22 16:33 Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  e Organics (Di Result <49.9	Qualifier U  RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg  Unit mg/Kg		Prepared 01/19/22 13:54	Analyzed 01/24/22 16:33  Analyzed 01/21/22 18:45	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9  e Organics (Di Result <49.9  <49.9	Qualifier U  RO) (GC) Qualifier U  U	RL 49.9  RL 49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54	Analyzed 01/24/22 16:33  Analyzed 01/21/22 18:45 01/21/22 18:45	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  e Organics (Di Result <49.9	Qualifier U  RO) (GC) Qualifier U  U	RL 49.9  RL 49.9  49.9  49.9	Unit mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	Analyzed 01/24/22 16:33  Analyzed 01/21/22 18:45 01/21/22 18:45	Dil Fac

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1/24/2022

Client: WSP USA Inc.

Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Lab Sample ID: 890-1840-4

**Client Sample ID: FS04** 

Date Collected: 01/12/22 13:52 Date Received: 01/18/22 11:52

Sample Depth: 1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3580		25.0	mg/Kg			01/22/22 12:44	5

**Client Sample ID: FS05** Lab Sample ID: 890-1840-5 Matrix: Solid

Date Collected: 01/12/22 13:54 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		01/21/22 07:30	01/21/22 23:53	
Toluene	< 0.00199	U F2 F1	0.00199	mg/Kg		01/21/22 07:30	01/21/22 23:53	1
Ethylbenzene	< 0.00199	U F2 F1	0.00199	mg/Kg		01/21/22 07:30	01/21/22 23:53	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398	mg/Kg		01/21/22 07:30	01/21/22 23:53	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		01/21/22 07:30	01/21/22 23:53	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		01/21/22 07:30	01/21/22 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			01/21/22 07:30	01/21/22 23:53	1
1,4-Difluorobenzene (Surr)	120		70 - 130			01/21/22 07:30	01/21/22 23:53	1
Method: Total BTEX - Total BTEX	( Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/19/22 13:54	01/21/22 19:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/19/22 13:54	01/21/22 19:06	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/19/22 13:54	01/21/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			01/19/22 13:54	01/21/22 19:06	1
o-Terphenyl	90		70 - 130			01/19/22 13:54	01/21/22 19:06	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1840-6

#### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1840-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS06** Date Collected: 01/12/22 14:20

Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/21/22 07:30	01/22/22 00:13	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/21/22 07:30	01/22/22 00:13	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/21/22 07:30	01/22/22 00:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/21/22 07:30	01/22/22 00:13	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/21/22 07:30	01/22/22 00:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/21/22 07:30	01/22/22 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			01/21/22 07:30	01/22/22 00:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130			01/21/22 07:30	01/22/22 00:13	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1
Mathada 0045 NM - Diagal Danas	· Ownering (DD)	0) (00)						
Method: 8015 NM - Diesel Range	•							
Analyto	Docult	Qualifier	DI	Unit	n	Dropared	Analyzod	Dil Eac
<u> </u>		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	<b>Result</b> <50.0		<b>RL</b> 50.0	mg/Kg	<u>D</u>	Prepared	<b>Analyzed</b> 01/24/22 16:33	
	<50.0	U			<u>D</u>	Prepared		Dil Fac
Total TPH	<50.0	U			<u>D</u>	Prepared Prepared		1
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0	mg/Kg			01/24/22 16:33	1
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0  ge Organics (D	CODE (GC) Qualifier U	50.0	mg/Kg		Prepared	01/24/22 16:33  Analyzed	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10	<50.0  ge Organics (Digensity Result < 50.0)	RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed  01/21/22 19:28	Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0  ge Organics (Di Result <50.0 <50.0	U RO) (GC) Qualifier U U	50.0  RL  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54	01/24/22 16:33  Analyzed  01/21/22 19:28  01/21/22 19:28	1 Dil Fac
Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0  ge Organics (Di Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0  RL  50.0  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 19:28 01/21/22 19:28 01/21/22 19:28	Dil Fac  1  1  Dil Fac
Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	U RO) (GC) Qualifier U U	50.0  RL 50.0  50.0  50.0  Limits	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared	O1/24/22 16:33  Analyzed  O1/21/22 19:28  O1/21/22 19:28  O1/21/22 19:28  Analyzed	Dil Fac
Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <70 73	CONTROL (GC) Qualifier U U Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54  Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 19:28  01/21/22 19:28  Analyzed  01/21/22 19:28	Dil Fac  1  1  Dil Fac
Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <70 73 omatography -	CONTROL (GC) Qualifier U U Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54  Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 19:28  01/21/22 19:28  Analyzed  01/21/22 19:28	Dil Fac  1  1  1  Dil Fac  1

**Client Sample ID: FS07** Lab Sample ID: 890-1840-7

Date Collected: 01/12/22 14:22 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/21/22 07:30	01/22/22 00:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/21/22 07:30	01/22/22 00:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/21/22 07:30	01/22/22 00:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/21/22 07:30	01/22/22 00:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/21/22 07:30	01/22/22 00:34	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/21/22 07:30	01/22/22 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			01/21/22 07:30	01/22/22 00:34	1

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Matrix: Solid

Lab Sample ID: 890-1840-7

#### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1840-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS07** 

Date Collected: 01/12/22 14:22 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	96		70 - 130			01/21/22 07:30	01/22/22 00:34	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/24/22 17:08	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	
		-0\ (00\						
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 01/19/22 13:54	Analyzed 01/21/22 19:50	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	01/19/22 13:54	01/21/22 19:50	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result < 50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	01/19/22 13:54	01/21/22 19:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	01/19/22 13:54	01/21/22 19:50	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	50.0	mg/Kg	<u>D</u>	01/19/22 13:54	01/21/22 19:50	Dil Fac
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	01/21/22 19:50 01/21/22 19:50 01/21/22 19:50	

25.0

Unit

mg/Kg

Prepared

Analyzed

01/22/22 13:07

Dil Fac

Result Qualifier

3100

#### **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1839-A-1-D MS	Matrix Spike	102	99	· —— —— —— —— —
890-1839-A-1-E MSD	Matrix Spike Duplicate	107	105	
890-1840-1	FS01	100	99	
890-1840-2	FS02	96	97	
890-1840-3	FS03	104	100	
890-1840-4	FS04	98	97	
890-1840-5	FS05	77	120	
890-1840-5 MS	FS05	117	99	
890-1840-5 MSD	FS05	139 S1+	119	
890-1840-6	FS06	124	96	
890-1840-7	FS07	130	96	
LCS 880-17167/1-A	Lab Control Sample	99	103	
LCS 880-17388/1-A	Lab Control Sample	117	105	
LCSD 880-17167/2-A	Lab Control Sample Dup	98	104	
LCSD 880-17388/2-A	Lab Control Sample Dup	124	112	
MB 880-17113/5-A	Method Blank	78	88	
MB 880-17167/5-A	Method Blank	67 S1-	91	
MB 880-17341/5-A	Method Blank	122	103	
MB 880-17388/5-A	Method Blank	119	101	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1838-A-1-F MS	Matrix Spike	73	71	
890-1838-A-1-G MSD	Matrix Spike Duplicate	77	76	
890-1840-1	FS01	69 S1-	81	
890-1840-2	FS02	75	85	
890-1840-3	FS03	75	88	
890-1840-4	FS04	80	92	
890-1840-5	FS05	80	90	
890-1840-6	FS06	70	73	
890-1840-7	FS07	79	86	
LCS 880-17278/2-A	Lab Control Sample	99	104	
LCSD 880-17278/3-A	Lab Control Sample Dup	99	105	
MB 880-17278/1-A	Method Blank	92	109	
Surrogate Legend				

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OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: MB 880-17113/5-A

**Matrix: Solid** 

Analysis Batch: 17425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17113

ı		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
ı	Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
ı	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
١									

MB MB

MR MR

MD ME

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/19/22 11:0	0 01/21/22 12:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/19/22 11:0	0 01/21/22 12:53	1

Lab Sample ID: MB 880-17167/5-A

**Matrix: Solid** 

**Analysis Batch: 17425** 

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

Prep Batch: 17167

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 01/19/22 15:00 01/22/22 03:20 Toluene <0.00200 U 0.00200 mg/Kg 01/19/22 15:00 01/22/22 03:20 mg/Kg Ethylbenzene <0.00200 U 0.00200 01/19/22 15:00 01/22/22 03:20 01/19/22 15:00 01/22/22 03:20 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 01/22/22 03:20 o-Xylene <0.00200 U 0.00200 mg/Kg 01/19/22 15:00 Xylenes, Total <0.00400 U 0.00400 01/19/22 15:00 01/22/22 03:20 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	01/19/22 15:00	01/22/22 03:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/19/22 15:00	01/22/22 03:20	1

Lab Sample ID: LCS 880-17167/1-A

**Matrix: Solid** 

**Analysis Batch: 17425** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 17167

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1007 mg/Kg 101 70 - 130 Toluene 0.100 0.08124 mg/Kg 81 70 - 130 Ethylbenzene 0.100 0.07870 mg/Kg 79 70 - 130 m-Xylene & p-Xylene 0.200 0.1731 mg/Kg 87 70 - 130 0.09401 70 - 130 0.100 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-17167/2-A

**Matrix: Solid** 

**Analysis Batch: 17425** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17167

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.09598 mg/Kg 96 70 - 130 5

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: LCSD 880-17167/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Total/NA** Prep Batch: 17167 Analysis Batch: 17425

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08331		mg/Kg		83	70 - 130	3	35
Ethylbenzene	0.100	0.08078		mg/Kg		81	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1779		mg/Kg		89	70 - 130	3	35
o-Xylene	0.100	0.09632		mg/Kg		96	70 - 130	2	35

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

ICSD ICSD

Lab Sample ID: 890-1839-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 17425									Prep Batch: 17167		
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.0996	0.07484		mg/Kg		75	70 - 130		
Toluene	<0.00200	U F1	0.0996	0.04915	F1	mg/Kg		48	70 - 130		
Ethylbenzene	<0.00200	U F1	0.0996	0.06825	F1	mg/Kg		69	70 - 130		
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.199	0.005844	F1	mg/Kg		3	70 - 130		
o-Xvlene	<0.00200	U	0.0996	0.08231		ma/Ka		83	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Sui	rr) 102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1839-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 17425** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08649		mg/Kg		87	70 - 130	14	35
Toluene	<0.00200	U F1	0.0990	0.04299	F1	mg/Kg		42	70 - 130	13	35
Ethylbenzene	<0.00200	U F1	0.0990	0.06753	F1	mg/Kg		68	70 - 130	1	35
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.198	<0.00396	U F1 F2	mg/Kg		2	70 - 130	58	35
o-Xylene	<0.00200	U	0.0990	0.07804		mg/Kg		79	70 - 130	5	35

	mob	MOD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-17341/5-A Matrix: Solid

MSD MSD

Analysis Batch: 17427

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/22 09:38	01/21/22 11:47	1

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Prep Type: Total/NA

Prep Batch: 17341

Client Sample ID: Method Blank

Prep Batch: 17167

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: MB 880-17341/5-A

**Matrix: Solid** 

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17341

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg	_	01/21/22 09:38	01/21/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/22 09:38	01/21/22 11:47	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/21/22 09:38	01/21/22 11:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/21/22 09:38	01/21/22 11:47	1

Lab Sample ID: MB 880-17388/5-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 17427** 

Prep Type: Total/NA

Prep Batch: 17388

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 mg/Kg 01/21/22 07:30 01/21/22 23:24 Toluene <0.00200 U 0.00200 mg/Kg 01/21/22 07:30 01/21/22 23:24 0.003137 01/21/22 23:24 Ethylbenzene 0.00200 mg/Kg 01/21/22 07:30 m-Xylene & p-Xylene <0.00400 U 0.00400 01/21/22 07:30 01/21/22 23:24 mg/Kg 0.00200 01/21/22 07:30 01/21/22 23:24 o-Xylene <0.00200 U mg/Kg 01/21/22 23:24 Xylenes, Total <0.00400 U 0.00400 01/21/22 07:30 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/21/	/22 07:30	01/21/22 23:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/21/	/22 07:30	01/21/22 23:24	1

Lab Sample ID: LCS 880-17388/1-A

**Matrix: Solid** 

**Analysis Batch: 17427** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 17388

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09187		mg/Kg		92	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09342		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-17388/2-A

**Matrix: Solid** 

**Analysis Batch: 17427** 

Client Sample ID: Lab Control Samp	lo Dun

Prep Type: Total/NA

Prep Batch: 17388

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2002		mg/Kg		100	70 - 130	2	35
o-Xvlene	0.100	0.1002		ma/Ka		100	70 - 130	7	35

Job ID: 890-1840-1 Client: WSP USA Inc. SDG: 31403236.022.0129 task 13.02 Project/Site: Corral Canyon 10 East

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-1840-5 MS **Client Sample ID: FS05** Matrix: Solid Prep Type: Total/NA **Analysis Batch: 17427** Prep Batch: 17388

	Sample	Sample	<b>Spike</b>	IVIS	IVIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0996	0.09366		mg/Kg		93	70 - 130	
Toluene	< 0.00199	U F2 F1	0.0996	0.09215		mg/Kg		91	70 - 130	
Ethylbenzene	< 0.00199	U F2 F1	0.0996	0.1025		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1941		mg/Kg		97	70 - 130	
o-Xylene	<0.00199	U F1	0.0996	0.09497		mg/Kg		95	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 117 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 890-1840-5 MSD

**Client Sample ID: FS05 Matrix: Solid** Prep Type: Total/NA Prep Batch: 17388 **Analysis Batch: 17427** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.100	0.04365	F2 F1	mg/Kg		43	70 - 130	73	35
Toluene	< 0.00199	U F2 F1	0.100	0.06067	F2 F1	mg/Kg		59	70 - 130	41	35
Ethylbenzene	< 0.00199	U F2 F1	0.100	0.06531	F2 F1	mg/Kg		65	70 - 130	44	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1177	F2 F1	mg/Kg		59	70 - 130	49	35
o-Xylene	< 0.00199	U F1	0.100	0.06987	F1	mg/Kg		69	70 - 130	30	35

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

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

Lab Sample ID: MB 880-17278/1-A

MB MB

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17438** Prep Batch: 17278 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 11:45	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 11:45	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	01/19/22 13:54	01/21/22 11:45	1
o-Terphenyl	109		70 - 130	01/19/22 13:54	01/21/22 11:45	1

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Client Sample ID: Method Blank

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: LCS 880-17. Matrix: Solid Analysis Batch: 17438	278/2-A						Client	: Sample	Prep Ty	ntrol Sample /pe: Total/NA Batch: 17278
•			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	980.3		mg/Kg		98	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	923.6		mg/Kg		92	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	99		70 - 130							
o-Terphenyl	104		70 - 130							

Lab Sample ID: LCSD 880-17278/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17438** Prep Batch: 17278 Spike LCSD LCSD %Rec. RPD Added Limit Analyte Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics 1000 995.1 100 70 - 130 1 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 938.2 mg/Kg 94 70 - 130 2 C10-C28)

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1838-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17438** Prep Batch: 17278

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1391	F1	mg/Kg		136	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1141		mg/Kg		112	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-1838-A-1- Matrix: Solid Analysis Batch: 17438	nalysis Batch: 17438								Client Sample ID: Matrix Spike D Prep Type: Prep Batc						
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1250		mg/Kg		122	70 - 130	11	20				
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1250		mg/Kg		123	70 - 130	9	20				
	MSD	MSD													
Surrogate	%Recovery	Qualifier	Limits												
1-Chlorooctane	77		70 - 130												

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Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

%Rec.

RPD

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

Lab Sample ID: 890-1838-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 17438** Prep Batch: 17278

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 76 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17334/1-A Client Sample ID: Method Blank

Matrix: Solid **Prep Type: Soluble** 

**Analysis Batch: 17415** MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 5.00 Chloride <5.00 mg/Kg 01/21/22 23:25 U

Lab Sample ID: LCS 880-17334/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits

Spike

Chloride 250 269.8 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-17334/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit

LCSD LCSD

Chloride 250 271.8 90 - 110 20 mg/Kg 109

Lab Sample ID: 890-1840-1 MS Client Sample ID: FS01 **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

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

Chloride 765 248 1021 103 90 - 110 mg/Kg

Lab Sample ID: 890-1840-1 MSD Client Sample ID: FS01

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** MSD MSD %Rec.

Sample Sample Spike RPD Analyte Result Qualifier Added Qualifier Limits RPD Limit Result Unit %Rec Chloride 248 96 90 - 110 765 1002 20 mg/Kg

#### **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1840-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

GC VOA

Prep Batch: 17113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17113/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Total/NA	Solid	5035	
890-1840-2	FS02	Total/NA	Solid	5035	
890-1840-3	FS03	Total/NA	Solid	5035	
890-1840-4	FS04	Total/NA	Solid	5035	
MB 880-17167/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17167/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17167/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1839-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-1839-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 17341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17341/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-5	FS05	Total/NA	Solid	5035	
890-1840-6	FS06	Total/NA	Solid	5035	
890-1840-7	FS07	Total/NA	Solid	5035	
MB 880-17388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1840-5 MS	FS05	Total/NA	Solid	5035	
890-1840-5 MSD	FS05	Total/NA	Solid	5035	

Analysis Batch: 17425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Total/NA	Solid	8021B	17167
890-1840-2	FS02	Total/NA	Solid	8021B	17167
890-1840-3	FS03	Total/NA	Solid	8021B	17167
890-1840-4	FS04	Total/NA	Solid	8021B	17167
MB 880-17113/5-A	Method Blank	Total/NA	Solid	8021B	17113
MB 880-17167/5-A	Method Blank	Total/NA	Solid	8021B	17167
LCS 880-17167/1-A	Lab Control Sample	Total/NA	Solid	8021B	17167
LCSD 880-17167/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17167
890-1839-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	17167
890-1839-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17167

Analysis Batch: 17427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-5	FS05	Total/NA	Solid	8021B	17388
890-1840-6	FS06	Total/NA	Solid	8021B	17388
890-1840-7	FS07	Total/NA	Solid	8021B	17388
MB 880-17341/5-A	Method Blank	Total/NA	Solid	8021B	17341
MB 880-17388/5-A	Method Blank	Total/NA	Solid	8021B	17388
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	8021B	17388
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17388

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#### **QC Association Summary**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

#### **GC VOA (Continued)**

#### **Analysis Batch: 17427 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-5 MS	FS05	Total/NA	Solid	8021B	17388
890-1840-5 MSD	FS05	Total/NA	Solid	8021B	17388

#### **Analysis Batch: 17647**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Total/NA	Solid	Total BTEX	
890-1840-2	FS02	Total/NA	Solid	Total BTEX	
890-1840-3	FS03	Total/NA	Solid	Total BTEX	
890-1840-4	FS04	Total/NA	Solid	Total BTEX	
890-1840-5	FS05	Total/NA	Solid	Total BTEX	
890-1840-6	FS06	Total/NA	Solid	Total BTEX	
890-1840-7	FS07	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 17278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Total/NA	Solid	8015NM Prep	
890-1840-2	FS02	Total/NA	Solid	8015NM Prep	
890-1840-3	FS03	Total/NA	Solid	8015NM Prep	
890-1840-4	FS04	Total/NA	Solid	8015NM Prep	
890-1840-5	FS05	Total/NA	Solid	8015NM Prep	
890-1840-6	FS06	Total/NA	Solid	8015NM Prep	
890-1840-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1838-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1838-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 17438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Total/NA	Solid	8015B NM	17278
890-1840-2	FS02	Total/NA	Solid	8015B NM	17278
890-1840-3	FS03	Total/NA	Solid	8015B NM	17278
890-1840-4	FS04	Total/NA	Solid	8015B NM	17278
890-1840-5	FS05	Total/NA	Solid	8015B NM	17278
890-1840-6	FS06	Total/NA	Solid	8015B NM	17278
890-1840-7	FS07	Total/NA	Solid	8015B NM	17278
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015B NM	17278
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17278
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17278
890-1838-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17278
890-1838-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17278

#### Analysis Batch: 17641

- 1	_					
	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	890-1840-1	FS01	Total/NA	Solid	8015 NM	
	890-1840-2	FS02	Total/NA	Solid	8015 NM	
	890-1840-3	FS03	Total/NA	Solid	8015 NM	
	890-1840-4	FS04	Total/NA	Solid	8015 NM	

#### **QC Association Summary**

Job ID: 890-1840-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

#### **GC Semi VOA (Continued)**

#### **Analysis Batch: 17641 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-5	FS05	Total/NA	Solid	8015 NM	
890-1840-6	FS06	Total/NA	Solid	8015 NM	
890-1840-7	FS07	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 17334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Soluble	Solid	DI Leach	
890-1840-2	FS02	Soluble	Solid	DI Leach	
890-1840-3	FS03	Soluble	Solid	DI Leach	
890-1840-4	FS04	Soluble	Solid	DI Leach	
890-1840-5	FS05	Soluble	Solid	DI Leach	
890-1840-6	FS06	Soluble	Solid	DI Leach	
890-1840-7	FS07	Soluble	Solid	DI Leach	
MB 880-17334/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17334/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17334/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1840-1 MS	FS01	Soluble	Solid	DI Leach	
890-1840-1 MSD	FS01	Soluble	Solid	DI Leach	

#### Analysis Batch: 17415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-1	FS01	Soluble	Solid	300.0	17334
890-1840-2	FS02	Soluble	Solid	300.0	17334
890-1840-3	FS03	Soluble	Solid	300.0	17334
890-1840-4	FS04	Soluble	Solid	300.0	17334
890-1840-5	FS05	Soluble	Solid	300.0	17334
890-1840-6	FS06	Soluble	Solid	300.0	17334
890-1840-7	FS07	Soluble	Solid	300.0	17334
MB 880-17334/1-A	Method Blank	Soluble	Solid	300.0	17334
LCS 880-17334/2-A	Lab Control Sample	Soluble	Solid	300.0	17334
LCSD 880-17334/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17334
890-1840-1 MS	FS01	Soluble	Solid	300.0	17334
890-1840-1 MSD	FS01	Soluble	Solid	300.0	17334

Client: WSP USA Inc. Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

Lab Sample ID: 890-1840-1

Matrix: Solid

Job ID: 890-1840-1

Date Collected: 01/12/22 12:21 Date Received: 01/18/22 11:52

**Client Sample ID: FS01** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 12:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 11:52	CH	XEN MID

**Client Sample ID: FS02** Lab Sample ID: 890-1840-2

Date Collected: 01/12/22 12:23 Matrix: Solid

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 13:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 18:04	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 12:14	CH	XEN MID

**Client Sample ID: FS03** Lab Sample ID: 890-1840-3 Date Collected: 01/12/22 13:50

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 13:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 18:25	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 12:22	CH	XEN MID

**Client Sample ID: FS04** Lab Sample ID: 890-1840-4 Date Collected: 01/12/22 13:52 **Matrix: Solid** 

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 14:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID

**Eurofins Carlsbad** 

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**Matrix: Solid** 

#### Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-1840-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS04 Lab Sample ID: 890-1840-4

Date Collected: 01/12/22 13:52

Matrix: Solid

Date Received: 01/18/22 11:52

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 8015 NM Total/NA Analysis 17641 01/24/22 16:33 AJ XEN MID Total/NA Prep 8015NM Prep 17278 01/19/22 13:54 DM XEN MID Total/NA Analysis 8015B NM 17438 01/21/22 18:45 AJ XEN MID Soluble 01/20/22 09:10 XEN MID Leach DI Leach 17334 CH 300.0 01/22/22 12:44 XEN MID Soluble Analysis 5 17415 СН

Client Sample ID: FS05 Lab Sample ID: 890-1840-5

Date Collected: 01/12/22 13:54 Matrix: Solid

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	17427	01/21/22 23:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 12:52	CH	XEN MID

Client Sample ID: FS06

Date Collected: 01/12/22 14:20

Lab Sample ID: 890-1840-6

Matrix: Solid

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	17427	01/22/22 00:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 19:28	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 13:00	CH	XEN MID

Client Sample ID: FS07 Lab Sample ID: 890-1840-7

Date Collected: 01/12/22 14:22 Date Received: 01/18/22 11:52

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	17427	01/22/22 00:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 19:50	AJ	XEN MID

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11

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890-1840-7 Matrix: Solid

#### **Lab Chronicle**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS07** Lab Sample ID: 890-1840-7 Date Collected: 01/12/22 14:22

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			17334	01/20/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 13:07	CH	XEN MID

#### **Laboratory References:**

Date Received: 01/18/22 11:52

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

#### **Accreditation/Certification Summary**

Job ID: 890-1840-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

#### **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total RTEY		Solid	Total RTEY	

#### **Method Summary**

Client: WSP USA Inc. Job ID: 890-1840-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

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#### **Sample Summary**

Client: WSP USA Inc.

Project/Site: Corral Canyon 10 East

Job ID: 890-1840-1

SDG: 31403236.022.0129 task 13.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1840-1	FS01	Solid	01/12/22 12:21	01/18/22 11:52	1
890-1840-2	FS02	Solid	01/12/22 12:23	01/18/22 11:52	1
890-1840-3	FS03	Solid	01/12/22 13:50	01/18/22 11:52	1
890-1840-4	FS04	Solid	01/12/22 13:52	01/18/22 11:52	1
890-1840-5	FS05	Solid	01/12/22 13:54	01/18/22 11:52	1
890-1840-6	FS06	Solid	01/12/22 14:20	01/18/22 11:52	1
890-1840-7	FS07	Solid	01/12/22 14:22	01/18/22 11:52	1

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Sampler's Name: P	Payton Benner		Due Date:	ate:																					
SAMPLE RECEIPT	Temp Blank:	Mes No	Wet Ice:	No No																					
Temperature (°C):	5.9/5.6	The	Thermometer ID		ners			))		890	890-1840 Chain of Custody	hain o	f Custo	ody					-						
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FS01	S	01/12/22	12:21	<b>-</b>	1	×	×	×													8	COMPOSITE	SITE		
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FS03	S	01/12/22	13:50	_	1	×	×	×											$\vdash$		S	COMPOSITE	E SITE		
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FS05	S	01/12/22	13:54		_	×	×	×		-				<u> </u>					-		8	COMPOSITE	SITE		
FS06	S	01/12/22	14:20	1	1	×	×	×											-		8	COMPOSITE	SITE		
FS07	S	01/12/22	14:22	1	_	×	×	×	-			_						+	+		CO	COMPOSITE	SITE		
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Total 200.7 / 6010 Circle Method(s)	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8 8	RA 13PPM	ICRA 13PPM Texas 11 AI	1 AI CRA	Al Sb As RA Sb As	s Ba s Ba	Be B	As Ba Be B Cd Ca Cr Co Cu As Ba Be Cd Cr Co Cu Pb Mn	Cr Co		Pb N	=e Pb Mg Mn Mo N Mo Ni Se Ag TI∪	g T	ᅜ	Se	Ag s	SiO2	Na 9	Sr TI / 245.	Na Sr Tl Sn ∪ V 1631 / 245.1 / 7470		Zn / <b>7471</b> :	1 : Hg	لــــا
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Revised Date 051418 Rev 2018 1

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# Chain of Custody Record

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Environment Testing America

Note: Since laboratory accreditations are subject to change Eurofins South Central places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins South Central laboratory or other instructions will be provided. Any changes to accreditation status Central attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins South Central State Zip: TX 79701 FS05 (890-1840-5) FS02 (890-1840-2) FS01 (890-1840-1) Phone 432-704-5440(Tel) Empty Kit Relinquished by FS07 (890-1840-7) FS06 (890-1840-6) FS04 (890-1840-4) FS03 (890-1840-3) Sample Identification - Client ID (Lab ID) Relinquished by Possible Hazard Identification Corral Canyon 10 East Midland Eurofins Environment Testing South Centi Shipping/Receiving Carlsbad NM 88220 Phone 575-988-3199 Fax. 575-988-3199 elinquished by 1211 W Florida Ave Client Information eliverable Requested I II III IV Other (specify) roject Name linquished by È (Sub Contract Lab) Custody Seal No Project #: 89000004 Date/Time Date/Time Primary Deliverable Rank WO# Due Date Requested 1/24/2022 'AT Requested (days) Sample Date 1/12/22 1/12/22 1/12/22 1/12/22 1/12/22 1/12/22 1/12/22 Date Mountain 13 54 Mountain 14 22 Mountain 14 20 Mountain 12 23 Mountain Mountain 13 52 Mountain 13 50 Sample (C=comp Sample Type G=grab) Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid <sub>Lab PM</sub> Kramer, Jessica jessica.kramer@eurofinset.com lime Field Filtered Sample (Yes or No) Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements × × × × × 8015MOD\_NM/8015NM\_S\_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. × × Return To Client eived × × × × × × × 8015MOD\_Calc × × × × 300\_ORGFM\_28D/DI\_LEACH Chloride 8021B/5035FP\_Calc (MOD) BTEX × × × × × × × Analysis Requested × Total\_BTEX\_GCV × × × × × × Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Q Archive For , Marie **\*** Total Number of containers , and s 148X وكالمتناخ G<del>PAR</del>S A HCL
B NACH
C Zn Acetate
D - Nitric Acid
F MeoH
G Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA COC No: 890-591 1 Preservation Codes 890-1840-1 Page 1 of 1 Special Instructions/Note If the laboratory does not currently should be brought to Eurofins South O AsivaO2
P Na2O4S
Q Na2SO3
R Na2SO3
S-H2SO4
T TSP Dodecahydrate
U-Acatone
V MCAA
W pH 4-5
Z other (specify) Ver: 06/08/2021 None AsNaO2 Na2O4S Na2SO3 Na2S2O3 Months

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1840-1

SDG Number: 31403236.022.0129 task 13.02

Login Number: 1840 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1840-1

SDG Number: 31403236.022.0129 task 13.02

List Source: Eurofins Midland

List Creation: 01/19/22 01:26 PM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1840

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

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### **Environment Testing America**

#### **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1839-1

Laboratory SDG: 31403236.022.0129 task 13.02

Client Project/Site: Corral Canyon 10 East

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 1/24/2022 4:37:56 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



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Released to Imaging: 4/20/2022 2:28:12 PM

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

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

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Client: WSP USA Inc. Project/Site: Corral Canyon 10 East Laboratory Job ID: 890-1839-1 SDG: 31403236.022.0129 task 13.02

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#### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

#### **Qualifiers**

**GC VOA** Qualifier

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

**Qualifier Description** 

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

#### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report. 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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

**Practical Quantitation Limit PQL** 

**PRES** Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

 Client: WSP USA Inc.
 Job ID: 890-1839-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Job ID: 890-1839-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1839-1

#### Receipt

The samples were received on 1/18/2022 11:52 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 5.6°C

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS10 (890-1839-3) and (MB 880-17167/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17167 and analytical batch 880-17425 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17278 and analytical batch 880-17438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-1838-A-1-E). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17334 and analytical batch 880-17415 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.

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 Client: WSP USA Inc.
 Job ID: 890-1839-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS08 Lab Sample ID: 890-1839-1

Date Collected: 01/13/22 10:50
Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:48	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:48	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:48	1
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.00400	mg/Kg		01/19/22 15:00	01/22/22 03:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:48	1
Xylenes, Total	<0.00400	U F1	0.00400	mg/Kg		01/19/22 15:00	01/22/22 03:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			01/19/22 15:00	01/22/22 03:48	1
1,4-Difluorobenzene (Surr)	73		70 - 130			01/19/22 15:00	01/22/22 03:48	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/24/22 16:52	1
Method: 8015 NM - Diesel Range								
_								
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 01/24/22 16:33	
_		Qualifier	RL	Unitmg/Kg	<u>D</u>	Prepared	Analyzed 01/24/22 16:33	
Analyte Total TPH	Result   <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg			01/24/22 16:33	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  Ge Organics (Dige Result	Qualifier U  RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	01/24/22 16:33 Analyzed	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0  ge Organics (Dige Result <50.0)	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed  01/21/22 14:12	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54	01/24/22 16:33  Analyzed  01/21/22 14:12  01/21/22 14:12	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 14:12 01/21/22 14:12 01/21/22 14:12	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0  50.0  Limits	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared	01/24/22 16:33  Analyzed 01/21/22 14:12 01/21/22 14:12 01/21/22 14:12 Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.0	Qualifier U  RO) (GC) Qualifier U  U  Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54  Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 14:12 01/21/22 14:12  01/21/22 14:12  Analyzed 01/21/22 14:12	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <50.0	Qualifier U  RO) (GC) Qualifier U  U  Qualifier	50.0  RL 50.0  50.0  50.0  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54  Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 14:12 01/21/22 14:12  01/21/22 14:12  Analyzed 01/21/22 14:12	Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac  1  Dil Fac

Client Sample ID: FS09 Lab Sample ID: 890-1839-2

Date Collected: 01/13/22 10:52 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 04:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 04:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 04:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/22 15:00	01/22/22 04:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 04:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/22 15:00	01/22/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			01/19/22 15:00	01/22/22 04:16	1

**Eurofins Carlsbad** 

Matrix: Solid

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Lab Sample ID: 890-1839-2

# **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1839-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS09

Date Collected: 01/13/22 10:52

Date Received: 01/18/22 11:52

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84	70 - 130	01/19/22 15:00	01/22/22 04:16	1

Mothod:	Total RTEX	- Total BTE	<b>Calculation</b>
welliou.	TOTAL DIEV	- IUIAI DIE	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 16:52	1

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Moth	nod: 8015 NM	Diocal Bana	o Organica	IDDOVIC	105
INIELI	IOU. OU 15 INIVI	- Diesei Kaliy	e Organics	ין נטאטן	3C)

Analyte	Re	sult	Qualifier		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	-	50.0	U	5	0.0	 mg/Kg			01/24/22 16:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	_	01/19/22 13:54	01/21/22 14:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 14:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

- carregate	,	<b>4</b>			, y = u u	
1-Chlorooctane	73		70 - 130	01/19/22 13:54	01/21/22 14:33	1
o-Terphenyl	83		70 - 130	01/19/22 13:54	01/21/22 14:33	1

# Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	522	5.04	mg/Kg			01/22/22 00:18	1

Client Sample ID: FS10

Lab Sample ID: 890-1839-3

Date Collected: 01/13/22 10:54

Matrix: Solid

Date Collected: 01/13/22 10:54 Date Received: 01/18/22 11:52

Sample Depth: 1

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

wethou: 602 fb - volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 04:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 04:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 04:45	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/19/22 15:00	01/22/22 04:45	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/19/22 15:00	01/22/22 04:45	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/19/22 15:00	01/22/22 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			01/19/22 15:00	01/22/22 04:45	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/19/22 15:00	01/22/22 04:45	1

Method: Tota	I RTFX - 1	Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	ma/Ka			01/24/22 16:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

**Eurofins Carlsbad** 

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Lab Sample ID: 890-1839-3

# **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1839-1

Project/Site: Correl Conven 10 Feet

SDC: 21402226 022 0120 took 12 02

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS10
Date Collected: 01/13/22 10:54

Date Received: 01/18/22 11:52

Sample Depth: 1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 14:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 14:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			01/19/22 13:54	01/21/22 14:55	1
o-Terphenyl	86		70 - 130			01/19/22 13:54	01/21/22 14:55	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		4.97	mg/Kg			01/22/22 00:26	1

Client Sample ID: FS11

Date Collected: 01/13/22 10:56

Lab Sample ID: 890-1839-4

Matrix: Solid

Date Collected: 01/13/22 10:56 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/22 15:00	01/22/22 05:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/22 15:00	01/22/22 05:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			01/19/22 15:00	01/22/22 05:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130			01/19/22 15:00	01/22/22 05:13	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/22 16:52	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			01/19/22 13:54	01/21/22 15:16	1

**Eurofins Carlsbad** 

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Client: WSP USA Inc.

**Client Sample ID: FS11** 

Date Collected: 01/13/22 10:56

Date Received: 01/18/22 11:52

Project/Site: Corral Canyon 10 East

Result Qualifier

<50.0 U

Job ID: 890-1839-1 SDG: 31403236.022.0129 task 13.02

Lab Sample ID: 890-1839-4

Matrix: Solid

**Matrix: Solid** 

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1270		4.95	mg/Kg			01/22/22 10:51	1

**Client Sample ID: FS12** Lab Sample ID: 890-1839-5

Date Collected: 01/13/22 10:58 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/22 15:00	01/22/22 05:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 05:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/22 15:00	01/22/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 _ 130			01/19/22 15:00	01/22/22 05:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130			01/19/22 15:00	01/22/22 05:40	1

Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:37	1

Unit

mg/Kg

Prepared

01/19/22 13:54

Analyzed

01/21/22 15:37

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	01/19/22 13:54	01/21/22 15:37	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130		01/19/22 13:54	01/21/22 15:37	1
o-Ternhenyl	81		70 130		01/10/22 13:54	01/21/22 15:37	1

50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4890		25.3	mg/Kg			01/22/22 11:14	5

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Dil Fac

Lab Sample ID: 890-1839-6

# **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1839-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS13** Date Collected: 01/13/22 11:00 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 06:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 06:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 06:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/22 15:00	01/22/22 06:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 06:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/22 15:00	01/22/22 06:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/19/22 15:00	01/22/22 06:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/19/22 15:00	01/22/22 06:06	1
- Method: Total BTEX - Total BTEX	( Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/22 17:08	1
Analyte Total TPH		Qualifier U		mg/Kg	D	Prepared	Analyzed 01/24/22 16:33	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		·		1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 15:58	1
	% Pocovory	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	/«Necovery					01/19/22 13:54		
Surrogate 1-Chlorooctane			70 - 130			01/19/22 13:54	01/21/22 15:58	1
1-Chlorooctane			70 <sub>-</sub> 130 70 <sub>-</sub> 130			01/19/22 13:54	01/21/22 15:58 01/21/22 15:58	•
	71 79							1
1-Chlorooctane o-Terphenyl	71 79 omatography -			Unit	D			1 1 Dil Fac

**Client Sample ID: FS14** 

Date Collected: 01/13/22 13:10 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 06:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 06:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 06:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/22 15:00	01/22/22 06:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 06:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/22 15:00	01/22/22 06:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			01/19/22 15:00	01/22/22 06:33	1

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Lab Sample ID: 890-1839-7

**Matrix: Solid** 

Lab Sample ID: 890-1839-7

# **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1839-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS14** 

Date Collected: 01/13/22 13:10 Date Received: 01/18/22 11:52

Sample Depth: 1

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	( Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	93	70 - 130	01/19/22 15:00	01/22/22 06:33	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (CC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD(	)) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 16:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 16:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIIS	Prepared	i Allalyzeu	DII Fac
1-Chlorooctane	72	70 - 130	01/19/22 13	3:54 01/21/22 16:19	1
o-Terphenyl	79	70 - 130	01/19/22 13	3:54 01/21/22 16:19	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620	25.0	mg/Kg			01/22/22 11:29	5

**Client Sample ID: FS15** Lab Sample ID: 890-1839-8 Matrix: Solid

Date Collected: 01/13/22 13:12 Date Received: 01/18/22 11:52

Sample Depth: 1

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

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00202	U	0.00202	mg/Kg		01/19/22 15:00	01/22/22 07:01	1
<0.00202	U	0.00202	mg/Kg		01/19/22 15:00	01/22/22 07:01	1
<0.00202	U	0.00202	mg/Kg		01/19/22 15:00	01/22/22 07:01	1
<0.00403	U	0.00403	mg/Kg		01/19/22 15:00	01/22/22 07:01	1
<0.00202	U	0.00202	mg/Kg		01/19/22 15:00	01/22/22 07:01	1
<0.00403	U	0.00403	mg/Kg		01/19/22 15:00	01/22/22 07:01	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
88		70 - 130			01/19/22 15:00	01/22/22 07:01	1
88		70 - 130			01/19/22 15:00	01/22/22 07:01	1
	<0.00202 <0.00202 <0.00202 <0.00403 <0.00202 <0.00403  %Recovery 88		<0.00202	<0.00202	<0.00202	<0.00202	<0.00202

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			01/24/22 17:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:33	1

Lab Sample ID: 890-1839-8

# **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1839-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS15** 

Date Collected: 01/13/22 13:12 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	mg/Kg	— <u> </u>	01/19/22 13:54	01/21/22 16:40	1
(GRO)-C6-C10				3 3				
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 16:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/22 13:54	01/21/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			01/19/22 13:54	01/21/22 16:40	1
o-Terphenyl	80		70 - 130			01/19/22 13:54	01/21/22 16:40	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230	-	25.0	mg/Kg			01/22/22 11:36	5

Lab Sample ID: 890-1839-9 **Client Sample ID: FS16 Matrix: Solid** 

Date Collected: 01/13/22 13:14 Date Received: 01/18/22 11:52

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 07:29	
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 07:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 07:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/22 15:00	01/22/22 07:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/22 15:00	01/22/22 07:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/22 15:00	01/22/22 07:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			01/19/22 15:00	01/22/22 07:29	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/19/22 15:00	01/22/22 07:29	1
Method: Total BTEX - Total BTEX	( Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/22 17:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
•	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/24/22 16:33	Dil Fac
Analyte	Result   <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH  Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U			D_	Prepared Prepared		1
Analyte Total TPH  Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg		<u> </u>	01/24/22 16:33	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  ge Organics (D Result	Qualifier U  RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	01/24/22 16:33  Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result ge Organics (D Result <50.0	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 01/19/22 13:54	01/24/22 16:33  Analyzed  01/21/22 17:23	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54	01/24/22 16:33  Analyzed  01/21/22 17:23  01/21/22 17:23	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL 50.0  50.0  50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	01/24/22 16:33  Analyzed 01/21/22 17:23  01/21/22 17:23	

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1/24/2022

# **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1839-1

Project/Site: Correl Conven 10 Feet

SDC: 31403336 033 0130 took 13 03

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS16

Lab Sample ID: 890-1839-9

Date Collected: 01/13/22 13:14 Date Received: 01/18/22 11:52

Sample Depth: 1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2670		25.1	mg/Kg			01/22/22 11:44	5

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# **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1839-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-1839-1	FS08	115	73	
90-1839-1 MS	FS08	102	99	
90-1839-1 MSD	FS08	107	105	
90-1839-2	FS09	88	84	
90-1839-3	FS10	138 S1+	106	
90-1839-4	FS11	90	88	
90-1839-5	FS12	115	96	
90-1839-6	FS13	111	102	
90-1839-7	FS14	93	93	
90-1839-8	FS15	88	88	
90-1839-9	FS16	95	94	
CS 880-17167/1-A	Lab Control Sample	99	103	
CSD 880-17167/2-A	Lab Control Sample Dup	98	104	
IB 880-17113/5-A	Method Blank	78	88	
1B 880-17167/5-A	Method Blank	67 S1-	91	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1838-A-1-F MS	Matrix Spike	73	71	
890-1838-A-1-G MSD	Matrix Spike Duplicate	77	76	
890-1839-1	FS08	73	84	
890-1839-2	FS09	73	83	
890-1839-3	FS10	75	86	
890-1839-4	FS11	72	81	
890-1839-5	FS12	70	81	
890-1839-6	FS13	71	79	
890-1839-7	FS14	72	79	
890-1839-8	FS15	71	80	
890-1839-9	FS16	72	81	
LCS 880-17278/2-A	Lab Control Sample	99	104	
LCSD 880-17278/3-A	Lab Control Sample Dup	99	105	
MB 880-17278/1-A	Method Blank	92	109	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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Released to Imaging: 4/20/2022 2:28:12 PM

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# **QC Sample Results**

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: MB 880-17113/5-A

Analysis Batch: 17425

**Matrix: Solid** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17113

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/22 11:00	01/21/22 12:53	1
	***	***						

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	01/19/22 11:0	0 01/21/22 12:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/19/22 11:0	0 01/21/22 12:53	1

Lab Sample ID: MB 880-17167/5-A

Matrix: Solid

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

Prep Batch: 17167

Analysis Batch: 17425

	IVID										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:20	1			
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:20	1			
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:20	1			
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/22 15:00	01/22/22 03:20	1			
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/22 15:00	01/22/22 03:20	1			
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/22 15:00	01/22/22 03:20	1			

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	01/19/22 15:00	01/22/22 03:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/19/22 15:00	01/22/22 03:20	1

Lab Sample ID: LCS 880-17167/1-A

**Matrix: Solid** 

**Analysis Batch: 17425** 

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

Prep Batch: 17167

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	
Toluene	0.100	0.08124		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07870		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.09401		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 _ 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-17167/2-A

Matrix: Solid

**Analysis Batch: 17425** 

Client Sample ID: Lal	Control Sample Dup
	Pron Type: Total/NA

Prep Type: Total/NA

Prep Batch: 17167

	<b>Бріке</b>	LCSD LCSD				%Rec.		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09598	mg/Kg		96	70 - 130	5	35

# QC Sample Results

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: LCSD 880-1 Matrix: Solid Analysis Batch: 17425						Clie	nt San	nple ID:	•	ol Samplo Type: Total Batch:	tal/NA
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.08331		mg/Kg		83	70 - 130	3	35
Ethylbenzene			0.100	0.08078		mg/Kg		81	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1779		mg/Kg		89	70 - 130	3	35
o-Xylene			0.100	0.09632		mg/Kg		96	70 - 130	2	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Lab Sample ID: 890-1839-1 MS **Client Sample ID: FS08 Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17425 Prep Batch: 17167

MS MS %Rec. Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00200 U 0.0996 0.07484 75 mg/Kg 70 - 130 Toluene <0.00200 UF1 0.0996 0.04915 F1 48 70 - 130 mg/Kg Ethylbenzene 0.0996 70 - 130 <0.00200 UF1 0.06825 F1 mg/Kg 69 <0.00400 U F1 F2 m-Xylene & p-Xylene 0.199 0.005844 F1 3 70 - 130 mg/Kg o-Xylene <0.00200 U 0.0996 0.08231 mg/Kg 83 70 - 130

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 70 - 130 99

Lab Sample ID: 890-1839-1 MSD **Client Sample ID: FS08** Prep Type: Total/NA **Matrix: Solid** 

Prep Batch: 17167 **Analysis Batch: 17425** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08649		mg/Kg		87	70 - 130	14	35
Toluene	<0.00200	U F1	0.0990	0.04299	F1	mg/Kg		42	70 - 130	13	35
Ethylbenzene	<0.00200	U F1	0.0990	0.06753	F1	mg/Kg		68	70 - 130	1	35
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.198	<0.00396	U F1 F2	mg/Kg		2	70 - 130	58	35
o-Xylene	<0.00200	U	0.0990	0.07804		mg/Kg		79	70 - 130	5	35

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 107 70 - 130 105 1,4-Difluorobenzene (Surr) 70 - 130

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

Lab Sample ID: MB 880-17278/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17438** Prep Batch: 17278 мв мв

Result Qualifier RL Unit Prepared Dil Fac <50.0 U 50.0 mg/Kg 01/19/22 13:54 01/21/22 11:45 Gasoline Range Organics (GRO)-C6-C10

1-Chlorooctane

o-Terphenyl

# QC Sample Results

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

Lab Sample ID: MB 880-17278/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 17278 Analysis Batch: 17438 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 11:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/22 13:54	01/21/22 11:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			01/19/22 13:54	01/21/22 11:45	1
o-Terphenyl	109		70 - 130			01/19/22 13:54	01/21/22 11:45	1

Lab Sample ID: LCS 880-17278/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17438 Prep Batch: 17278 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 980.3 98 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 923.6 mg/Kg 92 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery

Lab Sample ID: LCSD 880-17278/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

70 - 130

70 - 130

**Analysis Batch: 17438** Prep Batch: 17278

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	995.1		mg/Kg		100	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	938.2		mg/Kg		94	70 - 130	2	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

99

104

Lab Sample ID: 890-1838-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid** 

Prep Type: Total/NA **Analysis Batch: 17438** Prep Batch: 17278

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	997	1391	F1	mg/Kg		136	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	1141		mg/Kg		112	70 - 130	

C10-C28)	<b>~4</b> 3.3	O	991	1141	mg/Ng	112	70-
	MS	MS					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	73		70 - 130				
o-Terphenyl	71		70 - 130				

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

01/21/22 23:25

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

76

<5.00

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Lab Sample ID: 890-1838-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17438** Prep Batch: 17278 Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.9 U F1 996 1250 mg/Kg 122 70 - 130 11 20 (GRO)-C6-C10 996 1250 Diesel Range Organics (Over <49.9 U mg/Kg 123 70 - 1309 20 C10-C28) MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 77

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

Lab Sample ID: MB 880-17334/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble Analysis Batch: 17415** MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac

70 - 130

Lab Sample ID: LCS 880-17334/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

5.00

mg/Kg

**Analysis Batch: 17415** 

o-Terphenyl

Chloride

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 269.8 108 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-17334/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 271.8 109 90 - 110 mg/Kg

Lab Sample ID: 890-1837-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17415** 

Sample Sample Spike MS MS %Rec. Qualifier Added Qualifier Analyte Result Result Unit %Rec Limits Chloride F1 248 350.8 F1 128 90 - 110 33.0 mg/Kg

Lab Sample ID: 890-1837-A-1-F MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble** 

**Analysis Batch: 17415** 

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Qualifier Result %Rec Limits RPD Limit Analyte Unit D Chloride 248 322.2 F1 33.0 F1 117 90 - 110 20 mg/Kg

# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1839-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

#### **GC VOA**

#### Prep Batch: 17113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17113/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 17167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Total/NA	Solid	5035	_
890-1839-2	FS09	Total/NA	Solid	5035	
890-1839-3	FS10	Total/NA	Solid	5035	
890-1839-4	FS11	Total/NA	Solid	5035	
890-1839-5	FS12	Total/NA	Solid	5035	
890-1839-6	FS13	Total/NA	Solid	5035	
890-1839-7	FS14	Total/NA	Solid	5035	
890-1839-8	FS15	Total/NA	Solid	5035	
890-1839-9	FS16	Total/NA	Solid	5035	
MB 880-17167/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17167/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17167/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1839-1 MS	FS08	Total/NA	Solid	5035	
890-1839-1 MSD	FS08	Total/NA	Solid	5035	

#### Analysis Batch: 17425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Total/NA	Solid	8021B	17167
890-1839-2	FS09	Total/NA	Solid	8021B	17167
890-1839-3	FS10	Total/NA	Solid	8021B	17167
890-1839-4	FS11	Total/NA	Solid	8021B	17167
890-1839-5	FS12	Total/NA	Solid	8021B	17167
890-1839-6	FS13	Total/NA	Solid	8021B	17167
890-1839-7	FS14	Total/NA	Solid	8021B	17167
890-1839-8	FS15	Total/NA	Solid	8021B	17167
890-1839-9	FS16	Total/NA	Solid	8021B	17167
MB 880-17113/5-A	Method Blank	Total/NA	Solid	8021B	17113
MB 880-17167/5-A	Method Blank	Total/NA	Solid	8021B	17167
LCS 880-17167/1-A	Lab Control Sample	Total/NA	Solid	8021B	17167
LCSD 880-17167/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17167
890-1839-1 MS	FS08	Total/NA	Solid	8021B	17167
890-1839-1 MSD	FS08	Total/NA	Solid	8021B	17167

#### Analysis Batch: 17647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Total/NA	Solid	Total BTEX	
890-1839-2	FS09	Total/NA	Solid	Total BTEX	
890-1839-3	FS10	Total/NA	Solid	Total BTEX	
890-1839-4	FS11	Total/NA	Solid	Total BTEX	
890-1839-5	FS12	Total/NA	Solid	Total BTEX	
890-1839-6	FS13	Total/NA	Solid	Total BTEX	
890-1839-7	FS14	Total/NA	Solid	Total BTEX	
890-1839-8	FS15	Total/NA	Solid	Total BTEX	
890-1839-9	FS16	Total/NA	Solid	Total BTEX	

# **QC Association Summary**

Job ID: 890-1839-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

GC Semi VOA

Prep Batch: 17278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Total/NA	Solid	8015NM Prep	
890-1839-2	FS09	Total/NA	Solid	8015NM Prep	
890-1839-3	FS10	Total/NA	Solid	8015NM Prep	
890-1839-4	FS11	Total/NA	Solid	8015NM Prep	
890-1839-5	FS12	Total/NA	Solid	8015NM Prep	
890-1839-6	FS13	Total/NA	Solid	8015NM Prep	
890-1839-7	FS14	Total/NA	Solid	8015NM Prep	
890-1839-8	FS15	Total/NA	Solid	8015NM Prep	
890-1839-9	FS16	Total/NA	Solid	8015NM Prep	
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1838-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1838-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 17438** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Total/NA	Solid	8015B NM	17278
890-1839-2	FS09	Total/NA	Solid	8015B NM	17278
890-1839-3	FS10	Total/NA	Solid	8015B NM	17278
890-1839-4	FS11	Total/NA	Solid	8015B NM	17278
890-1839-5	FS12	Total/NA	Solid	8015B NM	17278
890-1839-6	FS13	Total/NA	Solid	8015B NM	17278
890-1839-7	FS14	Total/NA	Solid	8015B NM	17278
890-1839-8	FS15	Total/NA	Solid	8015B NM	17278
890-1839-9	FS16	Total/NA	Solid	8015B NM	17278
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015B NM	17278
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17278
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17278
890-1838-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17278
890-1838-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17278

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1839-1	FS08	Total/NA	Solid	8015 NM	
890-1839-2	FS09	Total/NA	Solid	8015 NM	
890-1839-3	FS10	Total/NA	Solid	8015 NM	
890-1839-4	FS11	Total/NA	Solid	8015 NM	
890-1839-5	FS12	Total/NA	Solid	8015 NM	
890-1839-6	FS13	Total/NA	Solid	8015 NM	
890-1839-7	FS14	Total/NA	Solid	8015 NM	
890-1839-8	FS15	Total/NA	Solid	8015 NM	
890-1839-9	FS16	Total/NA	Solid	8015 NM	

**HPLC/IC** 

Leach Batch: 17334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Soluble	Solid	DI Leach	
890-1839-2	FS09	Soluble	Solid	DI Leach	
890-1839-3	FS10	Soluble	Solid	DI Leach	

# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1839-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

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# HPLC/IC (Continued)

#### Leach Batch: 17334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-4	FS11	Soluble	Solid	DI Leach	
890-1839-5	FS12	Soluble	Solid	DI Leach	
890-1839-6	FS13	Soluble	Solid	DI Leach	
890-1839-7	FS14	Soluble	Solid	DI Leach	
890-1839-8	FS15	Soluble	Solid	DI Leach	
890-1839-9	FS16	Soluble	Solid	DI Leach	
MB 880-17334/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17334/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17334/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1837-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1837-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 17415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1839-1	FS08	Soluble	Solid	300.0	17334
890-1839-2	FS09	Soluble	Solid	300.0	17334
890-1839-3	FS10	Soluble	Solid	300.0	17334
890-1839-4	FS11	Soluble	Solid	300.0	17334
890-1839-5	FS12	Soluble	Solid	300.0	17334
890-1839-6	FS13	Soluble	Solid	300.0	17334
890-1839-7	FS14	Soluble	Solid	300.0	17334
890-1839-8	FS15	Soluble	Solid	300.0	17334
890-1839-9	FS16	Soluble	Solid	300.0	17334
MB 880-17334/1-A	Method Blank	Soluble	Solid	300.0	17334
LCS 880-17334/2-A	Lab Control Sample	Soluble	Solid	300.0	17334
LCSD 880-17334/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17334
890-1837-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	17334
890-1837-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17334

#### **Lab Chronicle**

 Client: WSP USA Inc.
 Job ID: 890-1839-1

 Project/Site: Corral Canyon 10 East
 SDG: 31403236.022.0129 task 13.02

Client Sample ID: FS08

Lab Sample ID: 890-1839-1

Date Collected: 01/13/22 10:50

Date Received: 01/18/22 11:52

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 03:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 00:11	CH	XEN MID

Client Sample ID: FS09 Lab Sample ID: 890-1839-2

Date Collected: 01/13/22 10:52 Matrix: Solid
Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 04:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 00:18	CH	XEN MID

Client Sample ID: FS10 Lab Sample ID: 890-1839-3

Date Collected: 01/13/22 10:54
Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 04:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 00:26	CH	XEN MID

Client Sample ID: FS11 Lab Sample ID: 890-1839-4

Date Collected: 01/13/22 10:56

Matrix: Solid

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 05:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 16:52	AJ	XEN MID

**Eurofins Carlsbad** 

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Matrix: Solid

/24/2022

Client: WSP USA Inc. Job ID: 890-1839-1

Project/Site: Corral Canyon 10 East SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS11** 

Lab Sample ID: 890-1839-4 Date Collected: 01/13/22 10:56 Matrix: Solid Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	17415	01/22/22 10:51	CH	XEN MID

**Client Sample ID: FS12** Lab Sample ID: 890-1839-5

Date Collected: 01/13/22 10:58 Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 05:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 11:14	CH	XEN MID

**Client Sample ID: FS13** Lab Sample ID: 890-1839-6 Date Collected: 01/13/22 11:00 **Matrix: Solid** 

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 06:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		10	17415	01/22/22 11:21	CH	XEN MID

Client Sample ID: FS14 Lab Sample ID: 890-1839-7

Date Collected: 01/13/22 13:10 Date Received: 01/18/22 11:52

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 16:19	AJ	XEN MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

**Matrix: Solid** 

#### Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

**Client Sample ID: FS14** 

Date Received: 01/18/22 11:52

Lab Sample ID: 890-1839-7 Date Collected: 01/13/22 13:10

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			17334	01/20/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 11:29	CH	XEN MID

**Client Sample ID: FS15** Lab Sample ID: 890-1839-8

Date Collected: 01/13/22 13:12 Date Received: 01/18/22 11:52

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 07:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 11:36	CH	XEN MID

**Client Sample ID: FS16** Lab Sample ID: 890-1839-9

Date Collected: 01/13/22 13:14 **Matrix: Solid** 

Date Received: 01/18/22 11:52

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17167	01/19/22 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	17425	01/22/22 07:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	17647	01/24/22 17:08	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	17438	01/21/22 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			17334	01/20/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		5	17415	01/22/22 11:44	CH	XEN MID

#### Laboratory References:

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

# **Accreditation/Certification Summary**

Job ID: 890-1839-1 Client: WSP USA Inc. Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

#### **Laboratory: Eurofins Midland**

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

Authority	P	rogram	Identification Number	<b>Expiration Date</b>
Texas	N	IELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		out the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes for
the agency aces not of	rer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
9 ,		Matrix Solid	Analyte Total TPH	

# **Method Summary**

Client: WSP USA Inc. Job ID: 890-1839-1 Project/Site: Corral Canyon 10 East

SDG: 31403236.022.0129 task 13.02

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

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

Released to Imaging: 4/20/2022 2:28:12 PM

# Sample Summary

Client: WSP USA Inc.

Project/Site: Corral Canyon 10 East

Job ID: 890-1839-1

SDG: 31403236.022.0129 task 13.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1839-1	FS08	Solid	01/13/22 10:50	01/18/22 11:52	1
890-1839-2	FS09	Solid	01/13/22 10:52	01/18/22 11:52	1
890-1839-3	FS10	Solid	01/13/22 10:54	01/18/22 11:52	1
890-1839-4	FS11	Solid	01/13/22 10:56	01/18/22 11:52	1
890-1839-5	FS12	Solid	01/13/22 10:58	01/18/22 11:52	1
890-1839-6	FS13	Solid	01/13/22 11:00	01/18/22 11:52	1
890-1839-7	FS14	Solid	01/13/22 13:10	01/18/22 11:52	1
890-1839-8	FS15	Solid	01/13/22 13:12	01/18/22 11:52	1
890-1839-9	FS16	Solid	01/13/22 13:14	01/18/22 11:52	1

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# Chain of Custody

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	me	Date/Time		Reeiyed by: (Signature)	Reseiyed b		y: (Signature)	Relinquished by: (Signature)
	ously negonated.	d. These terms will be enforced unless previously negotiated.	but not analyzed	tted to Xenco,	ach sample submit	charge of \$5 for e	each project and a	be applied to a	narge of \$75.00 will	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.
	terms and conditions ses beyond the control	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	cenco, its affiliat s incurred by the	t company to )	se order from client sibility for any loss:	tes a valid purchas sume any respons	samples constitutes and shall not as	quishment of ost of sample	document and relin	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. of service. Xenco will be liable only for the cost of samples and ahall not assume any responsibility for any losses or expenses incurred by the client if such losses a
1631 / 245.1 / 7470 / 7471 : Hg		Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Ba Be Cd	Sb As	TCLP / SPLP 6010: 8RCRA	CLP / SPLP		s) to be an	Circle Method(s) and Metal(s) to be analyzed	Circle Method
Na Sr TI Sn U V Zn	i K Se Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mg Mn	Ba Be B C	Al Sb As I	Texas 11	8RCRA 13PPM	8R(	6020:	5010 200.8 / 6020:	Total 200.7 / 6010
			-							
COMPOSITE			×	×	1	13:14	01/13/22	S	16	FS16
COMPOSITE			×	×	1	13:12	01/13/22	S	15	FS15
COMPOSITE			×	×		13:10	01/13/22	S	14	FS14
COMPOSITE			×	×	<b>-</b>	11:00	01/13/22	S	13	FS13
COMPOSITE			×	×	1	10:58	01/13/22	S	12	FS12
COMPOSITE			×	×		10:56	01/13/22	S	11	FS11
COMPOSITE			×	×		10:54	01/13/22	S	10	FS10
COMPOSITE			×	×		10:52	01/13/22	S	)9	FS09
COMPOSITE			×	×		10:50	01/13/22	S	38	FS08
Sample Comments	S		Chloric	TPH (E	Depth	Time	Date Sampled	Matrix	ntification	Sample Identification
tb, if received by 4:30pm	la.			PA 8	er of	Total Containers:	Total	No N/A	Yes	Sample Custody Seals
TAT starts the day recevied by the	TAT St		_	015	0. 7	Correction Factor:	Correc	No N/A	Yes	Cooler Custody Seals:
				;)		8	1-11	Z	(es	Received Intact:
	dy	890-1839 Chain of Custody			iner	Thermometer ID	Y.	15.6	28	Temperature (°C):
					No s	Wet Ice:	YesoNo	Temp Blank:		SAMPLE RECEIPT
			_		i e	Due Date:		)r	Payton Benner	Sampler's Name:
AFE: 30-015-47217	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					Rush:				P.O. Number:
CC: 1056571001	CC: 1C				A	Routine	31403236.022.0129 Task 13.02	6.022.012	3140323	Project Number:
Work Order Notes		ANALYSIS REQUEST			Turn Around	Turn .		า 10 East	Corral Canyon 10 East	Project Name:
Ciner	Deliverables: EUD   AUAP	Delivera		wsp.com	Kalei.jennings@wsp.com	Email: Ka			817-683-2503	Phone:
	level III	Reporti	Carlsbad, NM 88220	Carlsbad	City, State ZIP:	Cit		ıs 79705	Midland, Texas 79705	City, State ZIP:
		Stat	reene St	3104 E Greene St	Address:		3300 North A Street Building 1, unit 222	Street Buil	3300 North A	Address:
☐C 1 perfund ☐	☐RP ☐rownfields	Prograi	ergy, INC.	XTO Eneergy, INC	Company Name:	S			WSP USA	Company Name:
	Work Order Comm		aker	Adrian Baker	Bill to: (if different)	Bil		S	Kalei Jennings	Project Manager:
e1of1_	www.xenco.com <sup>&gt;</sup> age	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Atlanta,GA (7	80-355-0900)	<ol> <li>Phoenix,AZ (4)</li> </ol>	IM (575-392-755)	Hobbs,N	S	BORATO	LA
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334  Midland TX (232-704-5440) FL Paso TX (915)585-3443 Lubbock,TX (806)794-1296	) 902-0300 Sa	allas,TX (214	281) 240-4200 D	Houston,TX (		Ö		
	Work Order No:	Custody	of Cus	Chain of	C					)

Page 169 of 173

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

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# Chain of Custody Record

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Environment Testing
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Shipping/Receiving	Phone:			E-Mail jessica kramer@eurofinset.cor	er@euro	finset.co	m	zφ	State of Origin New Mexico	0 -		Page: Page 1 of 1	
Eurofins Environment Testing South Centr				Accredita NELAP	Accreditations Required (See note): NELAP - Louisiana NELAP -	ired (See no ina NEL/	<sup>note):</sup> LAP - Te	Texas				Job #: 890-1839-1	
Address. 1211 W Florida Ave ,	Due Date Requested 1/24/2022	a.					nalysi	Analysis Requested	ested			Preservation Codes	. I
City Midland	TAT Requested (days):	ys):		n enfektion entektion		$\dashv$	_				$\dashv$	A - HCL B NaOH	
State Zip TX, 79701				Salahan dari	TPH				·····				
Phone: 432-704-5440(Tel)	PO #			) ) )	D) Full	le							ž
Email	WO#:			eweggen year'y	p (MOI							Suddistant.	U Acetone V-MCAA
Project Name Corral Canyon 10 East	Project #: 89000004			COMMUNICATION OF THE PARTY OF T	S_Pre							200000	
Site	SSOW#			0272202000	6NM_							cont Other:	
				WHEN WHEN SOFT								A 1984 A	
			Sample Matrix Type (w=water S=solid,	Filtered	MOD_NM MOD_Cal	DRGFM_: B/6036FP	_BTEX_G					Numbe	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=Tissue, A=Air	Fie	4	-	4				400		Special Instructions/Note:
	X		Preservation Code:	e. X	hkoles	200			land the second	Section 1			
FS08 (890-1839-1)	1/13/22	Mountain	Solid		×	×	×						
FS09 (890-1839-2)	1/13/22	10 52 Mountain	Solid		×	×	×		····			. <u>4</u>	
FS10 (890-1839-3)	1/13/22	10 54 Mountain	Solid		× ×	×	×					in a	
FS11 (890-1839-4)	1/13/22	10 56 Mountain	Solid		× ×	×	×					<b>4</b>	
FS12 (890-1839-5)	1/13/22	10 58 Mountain	Solid		×	×	×						
FS13 (890-1839-6)	1/13/22	11 00 Mountain	Solid		×	×	×					# <u>**</u>	
FS14 (890-1839-7)	1/13/22	13 10 Mountain	Solid		×	×	×					y que .	
FS15 (890-1839-8)	1/13/22	13 12 Mountain	Solid		× ×	×	×					4	
FS16 (890-1839-9)	1/13/22	13 14 Mountain	Solid		×	×	×						
Note Since laboratory accreditations are subject to change Eurofins South Central 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 South Central laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins South Central attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins South Central.	ral places the ownersh being analyzed, the sa return the signed Chai	ip of method a imples must be in of Custody at	nalyte & accreditation c shipped back to the Eu testing to said complica	mpliance upon ofins South Ce nce to Eurofins	out subcor ntral labora South Cen	ntract labo atory or ot tral.	oratories her instruct	This sample tions will be	shipment i provided	s forwardı Any chanç	ed under ch	nain-of-custody If the	he laboratory does not current
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Empty Kit Relinquished by		Date.		Time.		-			Method	Method of Shipment:	ent		
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Custody Seals Intact Custody Seal No					Cooler Temperature(s	nperature	$\sim$ 1	°C and Other Remarks	arks	l			

# **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1839-1

SDG Number: 31403236.022.0129 task 13.02

List Source: Eurofins Carlsbad

Login Number: 1839 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	

# **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1839-1

SDG Number: 31403236.022.0129 task 13.02

**List Source: Eurofins Midland** 

List Creation: 01/19/22 01:26 PM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1839

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

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

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

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

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

CONDITIONS

Action 81306

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	81306
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
jnobui	Deferral Request Approved.	4/20/2022