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	NAPP2108543210
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party OC			OGRID	GRID		
Contact Name Co			Contact Te	Contact Telephone		
Contact email I			Incident #	(assigned by OCD))	
Contact mail	ing address			1		
			Location	of Release So	ource	
Latitude			(NAD 83 in dec	Longitude _ imal degrees to 5 decin	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	ity]
Surface Owner: State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil		Volume Release			Volume Reco	,
Troduced	Produced Water Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		Yes N	<u> </u>		
Condensate Volume Released (bbls)			Volume Reco	overed (bbls)		
Natural Gas Volume Released (Mcf)			Volume Reco	overed (Mcf)		
Other (describe) Volume/Weight Released (provide units)		Volume/Weig	ght Recovered (provide units)			
Cause of Rele	ease					

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?	
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
L	Initial Response	
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and the environment.	
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
_	ecoverable materials have been removed and managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain why:	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and	
public health or the environr	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have	
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:	Title:	
Signature:	ian Balu Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	

Location:	ADU CTB		
Spill Date:	3/19/2021		
	Area 1		
Approximate A	rea =	2064.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	14.19	bbls
	Area 2		
Approximate A	rea =	1226.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.25	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.14	bbls
TOTAL VOLUME OF LEAK			
Total Crude Oil	=	14.33	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	5.00	bbls

State of New Mexico

| Insident ID | Number 1991 | Number

Incident ID	NAPP2108543210
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Facility ID	
Application ID	

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 not on an exploration, development, production, or storage site?	☐ Yes 🛛 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.
Data table of soil contaminant concentration data Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs Photographs including date and GIS information	
☐ Topographic/Aerial maps	
X Laboratory data including chain of custody	

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

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Incident ID	NAPP2108543210
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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: Kyle Littrell	Title:Environmental Manager	
Signature:	Date:06/17/2021	
email:kyle.littrell@exxonmobil.com	Telephone:	
OCD Only		
Received by:	Date:	

reived by OCD: 6/16/2021 9:31:55 AM
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Incident ID	NAPP2108543210
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.	
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.		
Contamination does not cause an imminent risk to human health	n, 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:Kyle Littrell	Environmental Manager Title:	
Signature:	(117/0001	
kyle.littrell@exxonmobil.com email:	Telephone:	
OCD Only		
Received by:	Date:	
☐ Approved ☐ Approved with Attached Conditions of	Approval	
Signature:	Date:	

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Incident ID	NAPP2108543210
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.							
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 								
Deferral Requests Only: Each of the following items must be confi	irmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.								
X Extents of contamination must be fully delineated.								
■ Contamination does not cause an imminent risk to human health,	the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name:	Environmental Manager Title:							
Signature:	Date: 6/17/2021							
kyle.littrell@exxonmobil.com email:	Telephone:							
OCD Only								
Received by: Robert Hamlet	Date: 9/16/2021							
☐ Approved ☐ Approved with Attached Conditions of A	pproval							
Signature: Robert Hamlet I	Date: 9/16/2021							



WSP USA

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

June 17, 2021

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

RE: Deferral Request

Avalon Delaware Unit CTB

Incident Number NAPP2108543210

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, excavation, and soil sampling activities at the Avalon Delaware Unit CTB (Site) in Unit C, Section 31, Township 20 South, Range 28 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 following a release of crude oil at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation for Incident Number NAPP2108543210 until the Site is reconstructed, and/or the well pad is abandoned.

RELEASE BACKGROUND

On March 19, 2021, an open butterfly valve resulted in the release of 14.33 barrels (bbls) of crude oil into permeable 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 crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on March 26, 2021. The release was assigned Incident Number NAPP2108543210.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 00851, located approximately 0.15 miles east of the Site. The groundwater well has a reported



depth to groundwater of 115 feet bgs and a total depth of 255 feet bgs. Ground surface elevation at the groundwater well location is 3,251 feet above mean sea level (amsl), which is approximately 4 feet higher in elevation than the Site. NMOSE water well C 00851 was located less than 1,000 feet from the Site; therefore, a water sample (WS01) was collected from the well on October 1, 2019, for analysis of total dissolved solids (TDS) by Standard Method (SM) 2540C. Laboratory analytical results for water sample WS01, indicated a TDS concentration of 11,600 milligrams per liter (mg/L). Based on a TDS concentration greater than 10,000 mg/L, the water well is not considered a fresh water well. The laboratory analytical report is included in Attachment 4. NMOSE CP 01798 are 14 permitted soil borings completed to 20 feet bgs in July of 2019, groundwater was not encountered. The soil borings were plugged and abandoned per NMOSE requirements in July of 2019. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,528 feet southwest 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 April 23, 2021, WSP personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected five preliminary assessment soil samples (SS01 through SS05) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the



preliminary soil samples was 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 Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

Laboratory analytical results for all preliminary soil samples (SS01 through SS05) indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Between May 18, 2021 and June 2, 2021, WSP personnel returned to the Site to oversee excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. To determine vertical delineation prior to excavation, pothole PH01 was advanced to a depth of 5 feet bgs in the release extent near the preliminary soil sample SS03 location. Two discrete soil samples were collected from pothole PH01 at depths of 1-foot and 5 feet bgs. Soil from the pothole 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 the pothole were logged on a lithologic/soil sampling log, which are included in Attachment 2. The pothole location is shown on the attached Figure 2. Field screening results indicated that impacts to soil were limited to a depth of approximately 2 feet bgs.

Excavation activities were completed to remove impacted soil to the extent possible in the areas surrounding preliminary soil samples SS01 through SS05 and delineation soil sample PH01. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was separated into three areas (north, south, and east), divided by a flare scrubber and related aboveground pipelines. XTO safety policy prohibits mechanical or nonmechanical soil removal within 2 feet of active production equipment; therefore, impacted soil was left in-place immediately adjacent to active production equipment. The northern excavation measured approximately 2,830 square feet in area and was completed to depths ranging from approximately 2 feet to 4.5 feet bgs. The southern excavation measured approximately 2,250



square feet in area and was completed to a depth of approximately 1 feet bgs. The eastern excavation measured approximately 440 square feet in area and was completed to depths ranging from 1.5 feet to 2.5 feet bgs. Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floors of the excavations. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS31 were collected from the floor of the excavations from depths ranging from 1 foot bgs to 4.5 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavations from depths ranging from the ground surface to 4.5 feet bgs. Due to the shallow depth of parts of the excavations, the soil samples collected from less than 1.5 feet bgs represented the floors and sidewalls of the excavations. 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. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 3.

The combined excavations measured approximately 5,520 square feet in area and were completed to a maximum depth of 4.5 feet bgs. A total of approximately 440 cubic yards of impacted soil were removed from the excavations. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico.

Laboratory analytical results for pothole delineation sample PH01, collected at 1 foot bgs, indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria; subsequent delineation sample PH01A, collected at 5 feet bgs, was compliant with the Closure Criteria. Laboratory analytical results for excavation floor soil sample FS03 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Additional soil was removed from the area around floor sample FS03 and subsequent floor sample FS03A was collected. Laboratory analytical results for excavation soil samples FS01, FS02, FS03A, FS04 through FS31, and SW01 through SW06, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with Closure Criteria. The soil sample analytical results are summarized in Table 1 and laboratory analytical reports are included in Attachment 4.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On May 26, 2021, WSP personnel returned to the Site to oversee delineation activities to delineate the lateral and vertical extent of impacted soil left in-place adjacent to active production equipment. Seven potholes (PH02 through PH08) were advanced via track mounted backhoe to a depth of 4.5 feet bgs surrounding the release extent and production equipment. Discrete delineation soil samples were collected from each pothole at depths of 1-foot bgs and 4.5 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 the potholes were logged on lithologic/soil sampling logs, which are



included in Attachment 2. The delineation soil samples were handled and analyzed as described above. The pothole delineation soil samples locations are depicted on Figure 4.

Laboratory analytical results for the delineation soil samples collected from potholes PH02 through PH08, collected outside of the release extent and surrounding production equipment, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

DEFERRAL REQUEST

A total of approximately 440 cubic yards of impacted soil were excavated from the Site. Laboratory analytical results for the excavation soil samples collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. However, residual impacted soil was left in place immediately surrounding and beneath active production equipment for compliance with XTO safety policy regarding earth moving activities within 2 feet of active equipment. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the production equipment.

The impacted soil remaining in place is delineated vertically and laterally by the final excavation soil samples and delineation soil samples from potholes PH01 through PH08. An estimated 135 cubic yards of impacted soil remains in place, assuming a maximum 3-feet depth based on the excavation and delineation soil samples listed above, that were compliant with the Closure Criteria. The deferral request area is depicted on Figure 4.

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. Free-standing released fluids were recovered during initial response activities, the impacted soil remaining in place is limited to the area immediately surrounding and beneath active production equipment, and no saturated soil remains in-place. Depth to groundwater is greater than 100 feet bgs as measured in a nearby water well. The groundwater in that well was sampled and the naturally occurring water quality contains TDS exceeding 10,000 mg/L. XTO requests deferral of final remediation for Incident Number NAPP2108543210.



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

Sincerely,

WSP USA Inc.

William Mather

Assistant Consultant, Environmental Scientist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Figure 2 Soil Sample Locations

Figure 3 Excavation Soil Sample Locations

Figure 4 Delineation Soil Sample Locations and Deferral Area

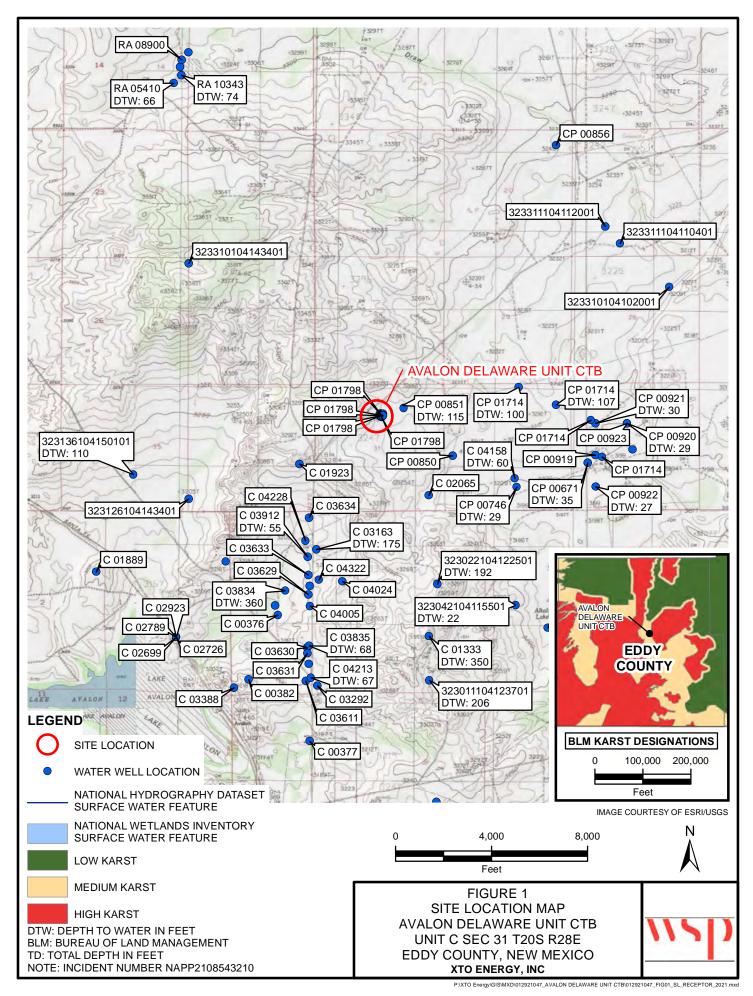
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Sampling Log

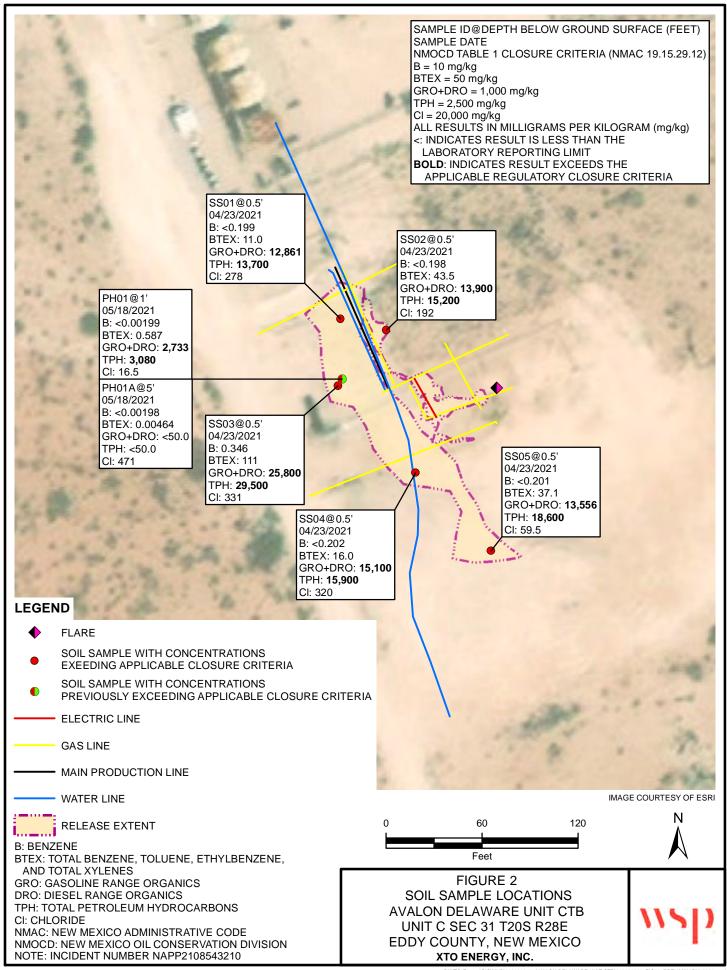
Attachment 3 Photographic Log

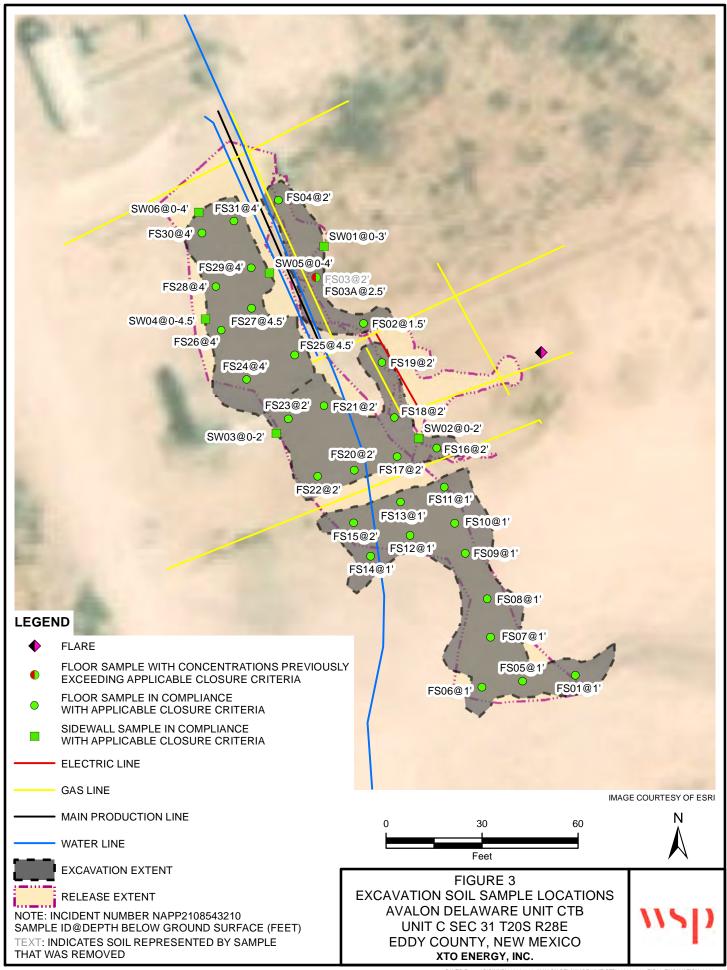
Attachment 4 Laboratory Analytical Reports

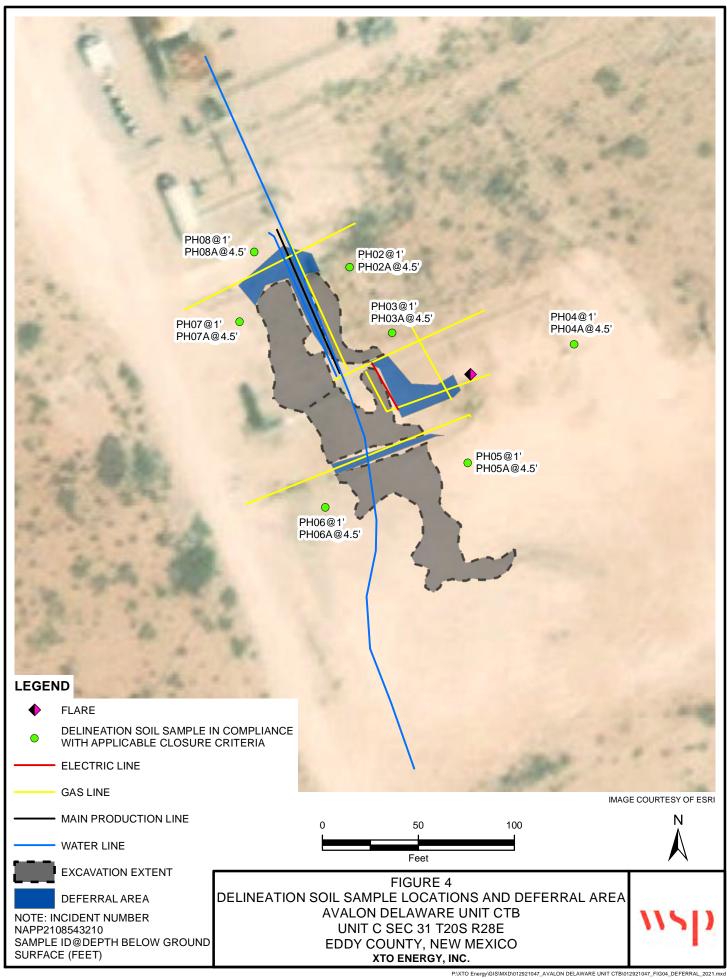
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FIGURE









TABLES

Table 1

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 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	04/23/2021	0.5	< 0.199	11.0	12,800	60.6	851	12,861	13,700	278
SS02	04/23/2021	0.5	< 0.198	43.5	13,900	<49.8	1,250	13,900	15,200	192
SS03	04/23/2021	0.5	0.346	111	25,800	<49.9	3,730	25,800	29,500	331
SS04	04/23/2021	0.5	< 0.202	16.0	15,100	<49.9	795	15,100	15,900	320
SS05	04/23/2021	0.5	< 0.201	37.1	13,500	55.6	1,720	13,556	18,600	59.5
Excavation Floor Sa	amples									
FS01	05/18/2021	1	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	< 50.0	2,220
FS02	05/20/2021	1.5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	12.3
FS03	05/20/2021	2	< 0.00199	< 0.00398	2,270	<50.0	368	2,270	2,640	11.6
FS03A	06/02/2021	2.5	< 0.00198	< 0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	102
FS04	05/20/2021	2	< 0.00199	< 0.00398	71.1	<50.0	<50.0	<50.0	71.1	52.3
FS05	05/21/2021	1	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	32.9
FS06	05/21/2021	1	< 0.00201	< 0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	26.2
FS07	05/21/2021	1	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	6.37
FS08	05/21/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	76.4
FS09	05/21/2021	1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	11.5
FS10	05/21/2021	1	< 0.00201	< 0.00402	109	<49.9	<49.9	109	109	1260
FS11	05/21/2021	1	< 0.00202	0.0141	175	<50.0	<50.0	175	175	146
FS12	05/21/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	35.4
FS13	05/21/2021	1	< 0.00198	< 0.00396	92.4	<50.0	<50.0	92.4	92.4	38.2

Table 1

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 C	losure Criteria (NM.	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS14	05/21/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	< 50.0	16.9
FS15	05/21/2021	2	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	21.9
FS16	05/21/2021	2	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	234
FS17	05/21/2021	2	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	228
FS18	05/21/2021	2	< 0.00202	< 0.00403	230	<49.9	<49.9	230	230	312
FS19	05/21/2021	2	< 0.00199	< 0.00398	59.6	<50.0	<50.0	59.6	59.6	232
FS20	05/21/2021	2	< 0.00200	< 0.00399	80.5	<50.0	<50.0	80.5	80.5	142
FS21	05/21/2021	2	< 0.00199	< 0.00398	96.9	<49.9	<49.9	96.9	96.9	29.3
FS22	05/21/2021	2	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	37.4
FS23	05/21/2021	2	< 0.00200	< 0.00400	<49.9	143	<49.9	143	143	107
FS24	05/24/2021	4	0.00623	0.00852	<49.9	<49.9	<49.9	<49.9	<49.9	12.1
FS25	05/24/2021	4.5	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	201
FS26	05/24/2021	4	< 0.00198	< 0.00397	67.0	<49.9	<49.9	67.0	67.0	77.4
FS27	05/24/2021	4.5	0.00286	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	15.4
FS28	05/24/2021	4	0.00449	0.00449	291	<49.9	<49.9	291	291	46.6
FS29	05/24/2021	4	< 0.00200	< 0.00400	586	<50.0	<50.0	586	586	36.6
FS30	05/24/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.9
FS31	05/24/2021	4	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	43.5
xcavation Sidewal	l Samples									
SW01	05/20/2021	0 - 3	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	6.16

Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
SW02	05/24/2021	0 - 2	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	447
SW03	05/24/2021	0 - 2	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	367
SW04	05/24/2021	0 - 4.5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	109
SW05	05/24/2021	0 - 4	< 0.00199	< 0.00398	101	<50.0	<50.0	101	101	17.9
SW06	05/24/2021	0 - 4	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	16.9
Delineation Samples	S				•	•	•			
PH01	05/18/2021	1	< 0.00199	0.587	2,620	113	346	2,733	3,080	16.5
PH01A	05/18/2021	5	< 0.00198	0.00464	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	471
PH02	05/26/2021	1	< 0.00200	< 0.00400	<49.9	<49.9	75.8	<49.9	75.8	60.8
PH02A	05/26/2021	4.5	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,420
PH03	05/26/2021	1	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	12.1
РН03А	05/26/2021	4.5	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	254
PH04	05/26/2021	1	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	131
PH04A	05/26/2021	4.5	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	99.4
PH05	05/26/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	81.9
PH05A	05/26/2021	4.5	0.00211	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	31.3
PH06	05/26/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7.68
PH06A	05/26/2021	4.5	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	< 50.0	28.8

Table 1

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000	
PH07	05/26/2021	1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	21.7
PH07A	05/26/2021	4.5	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	112
PH08	05/26/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	7.73
PH08A	05/26/2021	4.5	0.00269	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	55.8

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 - motor 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 - indicates soil that was excavated

ATTACHMENT 1: REFERENCED WELL RECORDS

STATE ENGINEER OFFICE WELL RECORD



Revised June 1972

Section 1. GENERAL INFORMATION

Street or City and	Post Office Ad State <u>Midl</u>	idress <u>P.O.</u> and Tex	. Box 16 (as 79	00 1702-1600)					
II was drilled	under Permit	No. EI	<u>85</u> ⊖ c	P-851	and is	located	in the:			
a	_ % <u>N₩</u> %	NW 4_N₩ _ ¼_£	NE ₩ ¼ of S	3] ection <u>-3</u> 2	l ⊇ Towi	nship _	20-S• Ra	nge <u>28</u> -	·Е•	N.M.F
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• .	vision, recorde								· ····· ··	
 ∴ d. X=		_ feet, Y=		feet, l	N.M. Coor	rdinate	System			Zon
the		 					· · · · · · · · · · · · · · · · · · ·			
Drilling C	ontractor	Glenn's	Water W	ell Serv	vice		License No	WD 421		
ress P.O.	Box 692	Tatum,	New Mex	ico 882	267				· · · · · · · · · · · · · · · · · · ·	
ling Began .	9/14/9	5 Com	pleted 9/	14/95	Type t	tools r	otary	Size	of hole?	7/8
							ft. Total depth			
							_			
pleted well	is LXI si	hallow []					upon completion	n of well .		
Depth	n Feet	Sec Thickness		ICIPAL WATI	ER-BEAR	ING ST	RATA	 		Victo
From	То	in Feet	· .	Description of	f Water-Be	earing F	ormation		stimated lons per r	
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		<u> </u>					·	<u> </u>	·	
Diameter	Pounds	Threads		in Feet				<u> </u>	D. C.	
(inches)	per foot	per in.	Тор	Bottom	Len (fe		Type of She	oe –	From	ations To
6 5/	8 .188		1	257	257	,	orange	peel	181	257
Ĝ.										
<u>_</u>		L								<u> </u>
Depth i	n Feet	Secti Hole	on 4. RECO	RD OF MUDI	OING AND		ENTING			
From	То	Diameter	of M		of Cement	- 1	Metho	od of Plac	ement	
	_									
			 							
<u></u>		<u>.</u>								
			Section	n 5. PLUGGI	NG RECO)RD				
ging Contra- ress	ctor				 _	I	Depth in	Faat	1 2	
	l			······································		No.	Top	Bottom		bic Feet Cement
ing approve						1 2			 	
		State Engi	neer Represe	ntative	— <u> </u>	3			1-	
										
Received (9-21-95		FOR USE	OF STATE E						
	//									
	CP-851		٠	Quad	l		FWL _		FSL_	

	Depth in Feet Thickness Section 6, LOG OF HOLE									
Depth i	in Feet To	Thickness in Feet	Color and Type of Material Encountered							
O	8	8	caleche and dirt							
8	18	10	red clay							
18	24	6	sand							
24	65	4.1	sandy clay	24 · · · · · · · · · · · · · · · · · · ·						
65	84	1.9	rocky conglomerate	* <u>1</u>						
84	92	8	clay conglomerate	· .						
92	110	10	red clay							
110	142	32	tan rocky clay	الله و						
142	162	20	tan lime	, i.e.						
162	164	2	red clay	¥.**						
164	167	3	break							
167	182	15	red clay (some rocks)	SA SA						
182	188	. 6	lime (grey)							
188	205	17	lime with red clay breaks							
205	230	25	white lime with breaks (water)	South States						
230	240	10	tan lime and red clay							
240	255	15	red clay							
				\$ 100 miles						
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Section 7. REMARKS AND ADDITIONAL INFORMATION

ROSWELL HEW MEXICO

'95 SEP. 21 AM 10 34

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except ion 5, shall be answered as completely and parately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



New Mexico Office of the State Engineer

Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 476246 Transaction Desc: CP 00851 File Date: 09/10/1996

Primary Status: PMT Permit

Secondary Status: MTR Meter Installation Received

Person Assigned: ******

Applicant: EXXON CORPORATION **Contact:** ALEX M CORREA

Events

		Date	Type	Description	Comment	Processed By
E	get image	09/10/1996	APP	Application Received	*	*****
		09/12/1996	FIN	Final Action on application		*****
		09/12/1996	WAP	General Approval Letter		*****
		01/01/2005	MTR	Meter Report Received		*****
		06/10/2011	ARV	Rec & Arch - file location	CP 00851 Box: 1876	*****

Change To:

WR File Nbr Acres Diversion Consumptive Purpose of Use

CP 00851 3

**Point of Diversion

CP 00851 573791 3599940*

An () after northing value indicates UTM location was derived from PLSS - see Help

Remarks

THE USE OF THREE (3) ACRE FEET OF WATER PER YEAR IS REQUESTED. THIS WATER WILL BE USED FOR SANITARY PURPOSES AT A ONE MAN FIELD OFFICE AND FOR LIVESTOCK WATERING.

ABSTRACTORS NOTE: RENEWAL APPLICATION WAS ALSO RECEIVED ON 06/25/1997. NO ACTION WAS TAKEN ON APPLICATION DUE TO PERMIT NOT NEEDING RENEWAL. PER LETTER DATED 06/26/1997, RENEWAL APPLICATION WAS RETURNED AS WELL AS APPLICATION FEE.

ABSTRACTORS NOTE CONTINUED: IMAGES FOR THE RENEWAL APPLICATION WERE IMAGED AS CORRESPONDENCE UNDER THIS TRANACTION NUMBER UNDER "INFORMATION ONLY SHEET" SEE IMAGES FOR FURTHER INFORMATION.

ABSTRACTORS NOTE: NO WELL RECORD ON FILE WITH THE OSE. PERMIT STATES THIS IS AN EXISTING WELL. NO WELL RECORD DUE DATE IS GIVEN.

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 5B A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records

- shall be submitted to the District Supervisor on or before the 10th of Jan., April, July and Oct. of each year for the 3 preceeding calendar months.
- H The amount and uses of water permitted under this Application are subject to such limitations as may be imposed by the courts or by lawful municipal and county ordinances which are more restrictive than applicable State Engineer Regulations and the conditions of this permit.

Action of the State Engineer

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved **Action Date:** 09/12/1996

State Engineer: John R. D Antonio,

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/27/19 9:10 AM TRANSACTION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

|--|

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs site no list =

323022104122501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323022104122501 21S.27E.05.41412

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°30'51.1", Longitude 104°12'34.9" NAD83

Land-surface elevation 3,284 feet above NAVD88

The depth of the well is 2,565 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

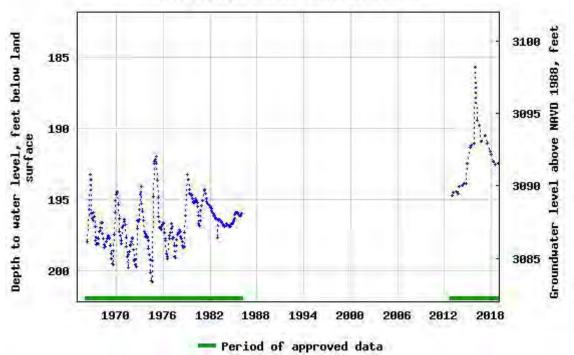
This well is completed in the Capitan Limostone (313CRTN) local aquifer.

This well is completed in the Capitan Limestone (313CPTN) local aquifer.

Output formats

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





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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-06-03 12:54:48 EDT

0.87 0.64 nadww01



ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOGS

									DLI or DLI Nome:	Date:
_					WS	P USA			BH or PH Name:	
				-			Stroot		PH01 Site Name:	5/18/2021
				Car	08 West S Isbad, Ne	RP or Incident Number:	Avalon Delaware Unit CTB nAPP2108543210			
									LTE Job Number:	TE012921047
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	G		Logged By WM	Method: Backhoe
Lat/Loi	Lat/Long: Field Screening: 32.533717, -104.217724 Chloride, PID								Hole Diameter:	Total Depth:
32.533 Comm		.217724			Chloride,	PID	1.25'	5'		
40% C	orrection	factor incl	uded ir	Chloride co	ncentration	ns				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			ogy/Remarks
D	<184	405.3	N	PH01	1	1			Caliche, poorly conso	olidated, silty, some sand, tan/off-
D	<184	187.5	N		-	2		white		
								0.5' - 5':	Sand, fine grain, poor	rly graded, some silt, tan/brown
					_	3	SM			
D	218	332.3	N		-	4				
				Dulass	-	L				
D	425	2.3	N	PH01A		5		Т	D @ 5' bgs	
					_	6			5-	
					-	7				
					_	7				
						8				
					-	9				
					_	_ 9				
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					-	24				
						25				

									DI DIN	-lp.,	
7			7		WS	SP USA			BH or PH Name:	Date:	
							PH02	5/26/2021	TD		
				5 Car	08 West S Isbad, Ne	Stevens S	street 88220		Site Name:	Avalon Delaware Unit C	IB
				Cal	isbau, NC	VV IVICAICU	00220		RP or Incident Number: LTE Job Number:	nAPP2108543210	
		I ITU		SIC / SOIL	SAMDI	INGLO	G			TE012921047	
l at/l o	na.	LITT	JLUG	oic / SUIL			Logged By LAD Hole Diameter:	Method: Backhoe Total Depth:			
32.533	Lat/Long: Field Screening: Chloride, PID							1.25'	4.5'		
Comm	ents:	factor incl	ndod ;-	n Chloride co	-					•	
40% C	orrection	actor inci	uaea ii	i Chionae co	ncentration	15	~	l			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			ology/Remarks	
D	224	3	Ν	PH02	1	1			Caliche, poorly con	solidated, silty, some sand, tan/o	off-
					-	2		white			
					_	Ī	SM	0.5' - 4.5	i: Sand, fine grain,	poorly graded, some clay, tan/br	rown
					_	3	SIVI	4 = 1 - 1 - 1	A foreign a State of the		
						4		4.5': Shif	t from silt to clay		
D	1,260	5	Ν	PH02A			SC	<u>L</u>			
						5		TD) @ 4.5' bgs		
					-	6					
					_	_					
					<u> </u>	7					
					-						
					_	8					
					-	9					
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					_	10					
					-	11					
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					MC	P USA			BH or PH Name:		Date:
					VVS	PH03	5	5/26/2021			
, and the second	• •			5	08 West S Isbad, Ne	Stevens S	Street		Site Name:	ı	Avalon Delaware Unit CTB
				Car	isbad, Ne	w Mexico	88220		RP or Incident Number:		nAPP2108543210
									LTE Job Number:	1	TE012921047
		LITH	OLOG	SIC / SOIL			Logged By LAD		Method: Backhoe		
Lat/Lo	ng:	047544			Field Scre		Hole Diameter:		Γotal Depth:		
Comm	3762, -104	.217544			Chloride,	PID	1.25'	4	4.5'		
		actor incl	uded in	Chloride co	ncentration	ıs					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			ology/Re	
D	<179	0	Ν	PH03				0' - 0.5': white	Caliche, poorly cons	solidated	d, silty, some sand, tan/off-
					-	2	SM	0.5' - 4.5	5՝: Sand, fine grain, բ	poorly gr	aded, some clay, tan/brown
					-	4		4.5': shif	t from silt to clay		
D	395	0	N	PH03A			SC		N @ 4 5 1 1		
						5		'L	0 @ 4.5' bgs		
					-	6					
					_						
					_	7					
					-	- 8					
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					-	25					

					MC	SP USA			BH or PH Name:	Da	ate:
		5 H			VV S	P USA	PH04	5/	26/2021		
				5	08 West S Isbad, Ne	Stevens S	Street		Site Name:	A	valon Delaware Unit CTB
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	n/	APP2108543210
									LTE Job Number:	Т	E012921047
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	Logged By LAD	М	ethod: Backhoe		
Lat/Lo	ng:				Field Scre			Hole Diameter:		otal Depth:	
	3745, -104	.217237			Chloride,	PID		1.25'	4.	5'	
Comm 40% C		factor incl	uded ir	Chloride co	ncentration	ns					
							×				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Rei	marks
D	224	0	Ν	PH04	<u> </u>	1	CCHE	0' - 1': C	aliche, poorly conso	olidated, s	ilty, some sand, tan/off-white
						2					
] -		SM	1' - 4.5':	Sand, fine grain, po	orly grade	ed, some clay, tan/brown
]					1 Eli abit	t from silt to alov				
				4.5': \$					t from silt to clay		
D	<179	0	Ν	PH04A	<u></u>		SC	1			
						5		TD	@ 4.5' bgs		
					-						
					_	6					
					-	7					
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					_	9					
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					-	22					
					-	23					
					-	24					
					-	25					
ı-					ı			<u> </u>			

			_		Me	P USA			BH or PH Name:	Date:	
					VVS	P USA	PH05	5/26/2021			
				5	08 West S Isbad, Ne	Stevens S	Street		Site Name:	Avalon Delaware Unit CTB	
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Number:	nAPP2108543210	
									LTE Job Number:	TE012921047	
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	Logged By LAD	Method: Backhoe			
Lat/Lo	ng:				Field Scre			Hole Diameter:	Total Depth:		
	3574, -104	.217416			Chloride, I	PID		1.25'	4.5'		
Comm 40% C		actor incl	uded in	Chloride co	ncentration	ıs					
							×				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			ology/Remarks	
D	<179	0	Ν	PH05		1	CCHE	0' - 1': C	aliche, poorly consol	idated, silty, some sand, tan/off-wh	ite
					-	2					
					_		CN4	1' - 4.5':	Sand, fine grain, poo	orly graded, some clay, tan/brown	
] 3				3	SM					
				4.5':				4.5': shif	t from silt to clay		
L L	<179	0 E	NI	PH05A		4	SC	-			
D	<179	0.5	N	ACUITY		5	30	ТГ	0 @ 4.5' bgs		\dashv
]	> 90		
						6					
]	<u> </u>					
					-	7					
					-	8					
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]	9					
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					<u>-</u>	22					
					-	23					
					-	24					
					_	_					
						25					

									DI DIN	10.1	
7			7		WS	P USA			BH or PH Name:	Date:	
							S		PH06	5/26/2021	
	508 West Stevens Street							Site Name: RP or Incident Number:	Avalon Delaware Unit CTB		
				Gai	isbau, NC	W WICKIGG	00220		LTE Job Number:		
		LITH		SIC / SOIL	CAMDI	INCLO	<u> </u>			TE012921047	
Lat/Lo	na:	LITT	JLUG	ic / SUIL	Field Scre		J		Logged By LAD Hole Diameter:	Method: Backhoe Total Depth:	
	ng. 351, -104.2	217659			Chloride,				1.25'	4.5'	
Comm	ents:	footor in I	udad!	Chlarid ·	-						
40% C	orrection t	ractor inci	uaea ir	Chloride co	ncentration	ns I		1			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			ology/Remarks	
D	<179	0	N	PH06		1	CCHE	0' - 1': C	aliche, poorly consc	olidated, silty, some sand, tan/off-w	hite
					-	2					
					_		CM	1' - 4.5':	Sand, fine grain, po	oorly graded, some clay, tan/brown	
					_	3	SM			_	
					-	4		4.5': shif	t from silt to clay		
D	<179	0.5	N	PH06A		4	SC	1			
	-					5		TC	0 @ 4.5' bgs		
					_	6					
					_	6					
					<u>-</u>	7					
					_	Γ _					
					_	8					
					-	9					
					_						
					_	10					
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									BU BUN	D .
			7		WS	P USA			BH or PH Name:	Date:
	119								PH07	5/26/2021
	508 West Stevens Street							Site Name: RP or Incident Number:	Avalon Delaware Unit CTB nAPP2108543210	
				- Jul	Joan No		03220		LTE Job Number:	TE012921047
		LITH	OL OC	SIC / SOIL	SAMPI	INGIO	G		Logged By LAD	Method: Backhoe
Lat/Lo	ng:			, 5511	Field Scre		_		Hole Diameter:	Total Depth:
32.53	3777, -104	.2178			Chloride,				1.25'	4.5'
Comm	nents: Correction f	actor incl	uded ir	Chloride co	ncentration	ıs				
Moisture Content	4	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)		USCS/Rock Symbol		Litho	ology/Remarks
D	<179	0.1	Ν	PH07	1	1		0' - 1': C	aliche, poorly conso	lidated, silty, some sand, tan/off-white
D	319	0.2	N	PH07A	- - - - -	3 4	Sivi	4.5': shif	Sand, fine grain, poor t from silt to clay	orly graded, some clay, tan/brown
						6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				

					MC	DIICA			BH or PH Name:	Date:	
					VVS	P USA			PH08	5/26/2021	
				5	08 West S Isbad, Ne	Stevens S	Street		Site Name:	Avalon Delaware Unit CT	В
				Car	isbad, Ne	w Mexico	88220		RP or Incident Number:	nAPP2108543210	
									LTE Job Number:	TE012921047	
		LITH	OLOG	IC / SOIL			G		Logged By LAD	Method: Backhoe	
Lat/Lo	ng:	047770			Field Scre				Hole Diameter:	Total Depth:	
Comm	8878, -104.	.211112			Chloride,	רוט			1.25'	4.5'	
		actor incl	uded ir	Chloride co	ncentration	IS					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			ology/Remarks	
D	<179	0	Ν	PH08	1	1		0' - 1': C	aliche, poorly consol	idated, silty, some sand, tan/off-	white
	<179	0	Z Z	PH08A		1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	SM	1' - 4.5': 4.5': shif		idated, silty, some sand, tan/off-	
						24 25					

ATTACHMENT 3: PHOTOGRAPHIC LOG



	PHOTOGRAPHIC LOG	
XTO Energy	Avalon Delaware Unit CTB	
	Eddy County, New Mexico	

Photo No.	Date	
1	April 26, 2021	
View of release e	extent facing north	
west.		

Photo No.	Date		
2	May 20, 2021		
View of excavation facing southeast.			





	PHOTOGRAPHIC LOG	
XTO Energy	Avalon Delaware Unit CTB	
	Eddy County, New Mexico	

Photo No. Date

3 May 21, 2021

View of excavation extent facing northwest.



Photo No.	Date
4	May 18, 2021
View of delineation	on (PH01) facing
east.	



ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-570-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 4/30/2021 12:41:11 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: 9/16/2021 2:55:52 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.

Client: WSP USA Inc.

Project/Site: ADU CTB

Laboratory Job ID: 890-570-1

SDG: TE012921047

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QC Sample Results	10
QC Association Summary	15
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

Qualifiers

GC	VOA
Qual	lifier

*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
11	Indicates the analyte was analyzed for but not detected

Indicates the analyte was analyzed for but not detected.

Glossarv

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"

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL MLMinimum 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) RLReporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-570-1

SDG: TE012921047

Job ID: 890-570-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-570-1

Receipt

The samples were received on 4/23/2021 4:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-570-1), SS02 (890-570-2), SS03 (890-570-3), SS04 (890-570-4) and SS05 (890-570-5).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: SS01 Lab Sample ID: 890-570-1

Date Collected: 04/23/21 10:18 Matrix: Solid Date Received: 04/23/21 16:43

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U *- *1	0.199	mg/Kg		04/26/21 15:48	04/27/21 07:15	100
Toluene	0.214	*- *1	0.199	mg/Kg		04/26/21 15:48	04/27/21 07:15	100
Ethylbenzene	1.87	*- *1	0.199	mg/Kg		04/26/21 15:48	04/27/21 07:15	100
m-Xylene & p-Xylene	6.21	*- *1	0.398	mg/Kg		04/26/21 15:48	04/27/21 07:15	100
o-Xylene	2.73	*- *1	0.199	mg/Kg		04/26/21 15:48	04/27/21 07:15	100
Xylenes, Total	8.94	*- *1	0.398	mg/Kg		04/26/21 15:48	04/27/21 07:15	100
Total BTEX	11.0	*- *1	0.398	mg/Kg		04/26/21 15:48	04/27/21 07:15	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130			04/26/21 15:48	04/27/21 07:15	10
1,4-Difluorobenzene (Surr)	99		70 - 130			04/26/21 15:48	04/27/21 07:15	10
Method: 8015B NM - Diesel Rang	• • •	, , ,	DI	Unit	Р	Drangrad	Analyzod	Dil Fa
Analyte	Result	RO) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	• • •	, , ,	RL	Unit mg/Kg	<u>D</u>	Prepared 04/28/21 10:09	Analyzed 04/30/21 04:55	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 851	, , ,	499	mg/Kg	<u>D</u>	04/28/21 10:09	04/30/21 04:55	1
Analyte Gasoline Range Organics	Result	, , ,			<u>D</u>	<u>.</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 851	Qualifier	499	mg/Kg	<u>D</u>	04/28/21 10:09	04/30/21 04:55	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 851	Qualifier	499	mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09	04/30/21 04:55 04/30/21 04:55	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 851 12800 <499	Qualifier U	499 499 499	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09	04/30/21 04:55 04/30/21 04:55 04/30/21 04:55	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 851 12800 <499 13700	Qualifier U	499 499 499 499	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09	04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 04/30/21 04:55	1 1 1 Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 851 12800 <499 13700 %Recovery	Qualifier U Qualifier	499 499 499 499 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared	04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 Analyzed	1 1 1 1 1 Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 851 12800 <499 13700 **Recovery 187 141	Qualifier U Qualifier S1+ S1+	499 499 499 499 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared 04/28/21 10:09	04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 Analyzed 04/30/21 04:55	10 10 10 10 10 10 10 10 10
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result 851 12800 <499 13700 **Recovery 187 141 omatography -	Qualifier U Qualifier S1+ S1+	499 499 499 499 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared 04/28/21 10:09	04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 04/30/21 04:55 Analyzed 04/30/21 04:55	10 10 10 10 10 10 10 10 10 10 10 10 10 1

Client Sample ID: SS02 Lab Sample ID: 890-570-2 Date Collected: 04/23/21 10:21 **Matrix: Solid**

Date Received: 04/23/21 16:43

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.198	U *- *1	0.198	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
Toluene	4.16	*- *1	0.198	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
Ethylbenzene	7.68	*- *1	0.198	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
m-Xylene & p-Xylene	23.0	*- *1	0.396	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
o-Xylene	8.61	*- *1	0.198	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
Xylenes, Total	31.6	*- *1	0.396	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
Total BTEX	43.5	*- *1	0.396	mg/Kg		04/26/21 15:48	04/27/21 07:36	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			04/26/21 15:48	04/27/21 07:36	100
1,4-Difluorobenzene (Surr)	109		70 - 130			04/26/21 15:48	04/27/21 07:36	100

Client Sample Results

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: SS02

Lab Sample ID: 890-570-2 Date Collected: 04/23/21 10:21 Matrix: Solid Date Received: 04/23/21 16:43

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1250		250	mg/Kg		04/28/21 10:09	04/30/21 05:16	5
Diesel Range Organics (Over C10-C28)	13900		250	mg/Kg		04/28/21 10:09	04/30/21 05:16	5
OII Range Organics (Over C28-C36)	<250	U	250	mg/Kg		04/28/21 10:09	04/30/21 05:16	5
Total TPH	15200		250	mg/Kg		04/28/21 10:09	04/30/21 05:16	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	186	S1+	70 - 130			04/28/21 10:09	04/30/21 05:16	5
o-Terphenyl	164	S1+	70 - 130			04/28/21 10:09	04/30/21 05:16	5
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	192		4.97	mg/Kg			04/29/21 09:09	

Client Sample ID: SS03 Lab Sample ID: 890-570-3

Date Collected: 04/23/21 10:23 Matrix: Solid

Date Received: 04/23/21 16:43

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.346	*- *1	0.200	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
Toluene	16.7	*- *1	0.200	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
Ethylbenzene	17.9	*- *1	0.200	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
m-Xylene & p-Xylene	54.8	*- *1	0.400	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
o-Xylene	21.5	*- *1	0.200	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
Xylenes, Total	76.3	*- *1	0.400	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
Total BTEX	111	*- *1	0.400	mg/Kg		04/26/21 15:48	04/27/21 07:57	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130			04/26/21 15:48	04/27/21 07:57	100
1,4-Difluorobenzene (Surr)	119		70 - 130			04/26/21 15:48	04/27/21 07:57	100
			RI	Unit	D	Propared	Δnalyzod	Dil Fac
Mothod: 8015B NM - Diosol Pane	no Organice (D	PO) (GC)						
Method: 8015B NM - Diesel Ranç Analyte	Result	RO) (GC) Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared 04/29/21 10:00	Analyzed	Dil Fac
Analyte Gasoline Range Organics			RL 501	Unit mg/Kg	<u>D</u>	Prepared 04/28/21 10:09	Analyzed 04/30/21 05:44	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result				<u>D</u>			10
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 3730		501	mg/Kg	<u>D</u>	04/28/21 10:09	04/30/21 05:44	10
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 3730	Qualifier	501	mg/Kg	<u>D</u>	04/28/21 10:09	04/30/21 05:44	10
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 3730 25800	Qualifier	501 501	mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09	04/30/21 05:44 04/30/21 05:44	10 10
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 3730 25800 <501	Qualifier	501 501 501	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09	04/30/21 05:44 04/30/21 05:44 04/30/21 05:44	10 10 10
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 3730 25800 <501 29500	Qualifier U Qualifier	501 501 501 501	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09	04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 04/30/21 05:44	10 10 10 10 Dil Fac
	Result 3730 25800 <501 29500 %Recovery 290	Qualifier U Qualifier	501 501 501 501 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared	04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 Analyzed	10 10 10 10 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 3730 25800 <501 29500 %Recovery 290 293	Qualifier U Qualifier S1+ S1+	501 501 501 501 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared 04/28/21 10:09	04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 Analyzed 04/30/21 05:44	10 10 10 10 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result 3730 25800 <501 29500 %Recovery 290 293 comatography -	Qualifier U Qualifier S1+ S1+	501 501 501 501 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D_	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared 04/28/21 10:09	04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 04/30/21 05:44 Analyzed 04/30/21 05:44	Dil Fac 10 10 10 10 10 Dil Fac 10 Dil Fac

Client: WSP USA Inc.

Job ID: 890-570-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: SS04

Lab Sample ID: 890-570-4

Date Collected: 04/23/21 10:28 Matrix: Solid
Date Received: 04/23/21 16:43

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.202	U	0.202	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
Toluene	0.464		0.202	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
Ethylbenzene	2.91		0.202	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
m-Xylene & p-Xylene	8.57		0.404	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
o-Xylene	4.05		0.202	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
Xylenes, Total	12.6		0.404	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
Total BTEX	16.0		0.404	mg/Kg		04/26/21 16:08	04/27/21 02:07	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			04/26/21 16:08	04/27/21 02:07	100
1,4-Difluorobenzene (Surr)	97		70 - 130			04/26/21 16:08	04/27/21 02:07	100
Method: 8015B NM - Diesel Rang Analyte	•	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
:								
Analyte	Result	, , ,			<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics	•	, , ,	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 04/28/21 10:09	Analyzed 04/30/21 06:11	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 795	, , ,	250	mg/Kg	<u>D</u>	04/28/21 10:09	04/30/21 06:11	5
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	, , ,			<u>D</u>	<u>.</u>		5
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 795	Qualifier	250	mg/Kg	<u>D</u>	04/28/21 10:09	04/30/21 06:11	5
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 795	Qualifier	250 250	mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09	04/30/21 06:11 04/30/21 06:11	5
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 795 15100 <250	Qualifier U	250 250 250	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09	04/30/21 06:11 04/30/21 06:11 04/30/21 06:11	Ę
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 795 15100 <250 15900	Qualifier U	250 250 250 250 250	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09	04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 04/30/21 06:11	S S Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 795 15100 <250 15900 %Recovery 164	Qualifier U Qualifier	250 250 250 250 250 250 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared	04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 795 15100 <250 15900 %Recovery 164 158	Qualifier U Qualifier S1+ S1+	250 250 250 250 250 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared 04/28/21 10:09	04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 Analyzed 04/30/21 06:11	E E Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result 795 15100 <250 15900 **Recovery 164 158 omatography -	Qualifier U Qualifier S1+ S1+	250 250 250 250 250 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 04/28/21 10:09 Prepared 04/28/21 10:09	04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 04/30/21 06:11 Analyzed 04/30/21 06:11	Dil Fac

Client Sample ID: 890-570-5
Date Collected: 04/23/21 10:32

Lab Sample ID: 890-570-5
Matrix: Solid

Date Received: 04/23/21 16:43

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
Toluene	3.39		0.201	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
Ethylbenzene	6.86		0.201	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
m-Xylene & p-Xylene	19.6		0.402	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
o-Xylene	7.20		0.201	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
Xylenes, Total	26.8		0.402	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
Total BTEX	37.1		0.402	mg/Kg		04/26/21 16:08	04/27/21 02:27	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	188	S1+	70 - 130			04/26/21 16:08	04/27/21 02:27	100
1,4-Difluorobenzene (Surr)	98		70 - 130			04/26/21 16:08	04/27/21 02:27	100

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Client Sample Results

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-570-1
SDG: TE012921047

Client Sample ID: SS05

Date Collected: 04/23/21 10:32

Lab Sample ID: 890-570-5

Matrix: Solid

Date Received: 04/23/21 16:43 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1720		250	mg/Kg		04/28/21 13:56	04/29/21 07:01	5
Diesel Range Organics (Over C10-C28)	13500		250	mg/Kg		04/28/21 13:56	04/29/21 07:01	5
Oll Range Organics (Over C28-C36)	3390	В	250	mg/Kg		04/28/21 13:56	04/29/21 07:01	5
Total TPH	18600	В	250	mg/Kg		04/28/21 13:56	04/29/21 07:01	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130			04/28/21 13:56	04/29/21 07:01	5
o-Terphenyl	220	S1+	70 - 130			04/28/21 13:56	04/29/21 07:01	5
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.5		4.95	mg/Kg			04/29/21 09:36	1

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Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-570-1

SDG: TE012921047

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	(70-130)	(70-130)	
890-570-1	SS01	108	99	
890-570-2	SS02	128	109	
890-570-3	SS03	162 S1+	119	
890-570-4	SS04	159 S1+	97	
890-570-5	SS05	188 S1+	98	
LCS 880-2338/1-A	Lab Control Sample	95	105	
LCS 880-2342/1-A	Lab Control Sample	116	102	
LCSD 880-2338/2-A	Lab Control Sample Dup	92	109	
LCSD 880-2342/2-A	Lab Control Sample Dup	113	104	
MB 880-2209/5-A	Method Blank	96	91	
MB 880-2314/5-A	Method Blank	106	85	
MB 880-2338/5-A	Method Blank	114	103	
MB 880-2342/5-A	Method Blank	91	90	

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)	
890-570-1	SS01	187 S1+	141 S1+	
890-570-2	SS02	186 S1+	164 S1+	
890-570-3	SS03	290 S1+	293 S1+	
890-570-4	SS04	164 S1+	158 S1+	
890-570-5	SS05	150 S1+	220 S1+	
LCS 880-2430/2-A	Lab Control Sample	115	108	
LCS 880-2454/2-A	Lab Control Sample	106	95	
LCSD 880-2430/3-A	Lab Control Sample Dup	111	106	
LCSD 880-2454/3-A	Lab Control Sample Dup	107	96	
MB 880-2430/1-A	Method Blank	111	109	
MB 880-2454/1-A	Method Blank	100	98	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-570-1

Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID: MB	880-2209/5-A
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Matrix: Solid

Analysis Batch: 2286

Client	Sample	ID:	Meth	od I	Blank
	Dr	'nn'	Typo:	Tot	AI/NA

	•	
Dron	Dotob.	2200
rrep	Batch:	2203

Prep Batch: 2314

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/23/21 11:53	04/26/21 12:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/23/21 11:53	04/26/21 12:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/23/21 11:53	04/26/21 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/23/21 11:53	04/26/21 12:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/23/21 11:53	04/26/21 12:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/23/21 11:53	04/26/21 12:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/23/21 11:53	04/26/21 12:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/23/21 11:53	04/26/21 12:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/23/21 11:53	04/26/21 12:11	1

Lab Sample ID: MB 880-2314/5-A Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 2315

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/21 08:44	04/26/21 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/26/21 08:44	04/26/21 12:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/26/21 08:44	04/26/21 12:07	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/26/21 08:44	04/26/21 12:07	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/26/21 08:44	04/26/21 12:07	1

Lab Sample ID: MB 880-2338/5-A

Matrix: Solid

Analysis Batch: 2315

Client	Sample	e ID:	Meth	od E	Blank	
			T	T-4	-I/NIA	

Prep Type: Total/NA Prep Batch: 2338

MB	MB
Result	Quali

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/21 15:48	04/27/21 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/26/21 15:48	04/27/21 00:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/26/21 15:48	04/27/21 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/26/21 15:48	04/27/21 00:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/26/21 15:48	04/27/21 00:03	1

Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-570-1 SDG: TE012921047

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

Lab Sample ID: LCS 880-2338/1-A

Lab Sample ID: LCSD 880-2338/2-A

Matrix: Solid

o-Xylene

Matrix: Solid

Matrix: Solid Analysis Batch: 2315 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA Prep Batch: 2338

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08044 mg/Kg 80 70 - 130 Toluene 0.100 0.09159 mg/Kg 92 70 - 130 0.100 0.08684 Ethylbenzene mg/Kg 87 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.1811 mg/Kg 91 0.100 o-Xylene 0.09065 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2338

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Analysis Batch: 2315 Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Benzene 0.100 0.04572 *- *1 mg/Kg 46 70 - 130 55 35 Toluene 0.100 0.02608 *- *1 mg/Kg 26 70 - 130 111 35 0.100 0.01119 *- *1 70 - 130 Ethylbenzene mg/Kg 11 154 35 0.200 0.02200 *- *1 m-Xylene & p-Xylene mg/Kg 11 70 - 130 157 35

0.01484 *- *1

mg/Kg

0.100

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1.4-Difluorobenzene (Surr)	109	70 - 130

Client Sample ID: Method Blank

70 - 130

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Prep Type: Total/NA Prep Batch: 2342

Analysis Batch: 2286 MR MR

Lab Sample ID: MB 880-2342/5-A

IVID	IVIE

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/21 16:08	04/26/21 23:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/21 16:08	04/26/21 23:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/21 16:08	04/26/21 23:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/26/21 16:08	04/26/21 23:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/26/21 16:08	04/26/21 23:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/26/21 16:08	04/26/21 23:02	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/26/21 16:08	04/26/21 23:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/26/21 16:08	04/26/21 23:02	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/26/21 16:08	04/26/21 23:02	1

Lab Sample ID: LCS 880-2342/1-A

Matrix: Solid

Analysis Batch: 2286

Client Sample ID: Lab Control Sample	
Prep Type: Total/NA	
Prep Batch: 2342	

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1019		mg/Kg		102	70 - 130	

QC Sample Results

Job ID: 890-570-1 Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

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

Lab Sample ID: LCS 880-2342/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 2286** Prep Batch: 2342

1		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Toluene	0.100	0.09773		mg/Kg		98	70 - 130	
	Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	
	m-Xylene & p-Xylene	0.200	0.2147		mg/Kg		107	70 - 130	
	o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130	

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: LCSD 880-2342/2-A **Matrix: Solid**

o-Xylene

Analysis Batch: 2286 Prep Batch: 2342 Spike LCSD LCSD RPD %Rec. Limit Analyte Added Result Qualifier Unit %Rec Limits **RPD** Benzene 0.100 0.09599 96 35 mg/Kg 70 - 130 6 Toluene 0.100 0.08896 89 70 - 130 35 mg/Kg 9 Ethylbenzene 0.100 0.09141 91 70 - 130 mg/Kg 9 35 m-Xylene & p-Xylene 0.200 97 70 - 130 35 0.1943 mg/Kg 10

0.09955

mg/Kg

100

70 - 130

10

0.100

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-2430/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 2466** Prep Batch: 2430

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/28/21 10:09	04/29/21 21:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/28/21 10:09	04/29/21 21:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/21 10:09	04/29/21 21:04	1
Total TPH	<50.0	U	50.0	mg/Kg		04/28/21 10:09	04/29/21 21:04	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/28/21 10:09	04/29/21 21:04	1
o-Terphenyl	109		70 - 130	04/28/21 10:09	04/29/21 21:04	1

Lab Sample ID: LCS 880-2430/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 2466 Prep Batch: 2430 LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1076 108 70 - 130 mg/Kg (GRO)-C6-C10

Eurofins Xenco, Carlsbad

Released to Imaging: 9/16/2021 2:55:52 PM

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-570-1

SDG: TE012921047

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

Lab Sample ID: LCS 880-2430/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 2466** Prep Batch: 2430 LCS LCS

Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D 1000 991 3 99 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-2430/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 2466** Prep Batch: 2430

Spike LCSD LCSD %Rec. RPD Result Qualifier Limit Analyte Added Unit %Rec Limits RPD 1000 1053 105 70 - 130 2 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 962.4 mg/Kg 96 70 - 130 3 20

C10-C28)

	LCSD LCSD	
Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	111	70 - 130
o-Terphenyl	106	70 - 130

LCSD LCSD

Lab Sample ID: MB 880-2454/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 2421 Prep Batch: 2454 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/28/21 13:56	04/28/21 22:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/28/21 13:56	04/28/21 22:08	1
C10-C28)								
Oll Range Organics (Over C28-C36)	68.05		50.0	mg/Kg		04/28/21 13:56	04/28/21 22:08	1
Total TPH	68.05		50.0	mg/Kg		04/28/21 13:56	04/28/21 22:08	1

MR MR Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 100 70 - 130 04/28/21 13:56 04/28/21 22:08 70 - 130 04/28/21 13:56 04/28/21 22:08 o-Terphenyl 98

Lab Sample ID: LCS 880-2454/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 2421 Prep Batch: 2454

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	934.9	-	mg/Kg		93	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	846.9		mg/Kg		85	70 - 130
C10 C28)							

C10-C28) LCS LCS Limits

Surrogate %Recovery Qualifier 1-Chlorooctane 70 - 130 106

Job ID: 890-570-1

Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

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

Lab Sample ID: LCS 880-2454/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 2421** Prep Batch: 2454

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 95 70 - 130

Lab Sample ID: LCSD 880-2454/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 2421** Prep Batch: 2454

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

Gasoline Range Organics 1000 1012 mg/Kg 101 70 - 130 8 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 864.4 mg/Kg 86 70 - 130 2 20 C10-C28)

LCSD LCSD Qualifier %Recovery Limits Surrogate 70 - 130 1-Chlorooctane 107 96 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2341/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 2449

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 04/28/21 21:53 mg/Kg

Lab Sample ID: LCS 880-2341/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Soluble Analysis Batch: 2449

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

Chloride 250 253.0 101 90 - 110 mg/Kg Lab Sample ID: LCSD 880-2341/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble Analysis Batch: 2449

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

254.9

250

mg/Kg

Eurofins Xenco, Carlsbad

102

90 - 110

20

Chloride

QC Association Summary

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

GC VOA

Prep Batch: 2209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2209/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-4	SS04	Total/NA	Solid	8021B	2342
890-570-5	SS05	Total/NA	Solid	8021B	2342
MB 880-2209/5-A	Method Blank	Total/NA	Solid	8021B	2209
MB 880-2342/5-A	Method Blank	Total/NA	Solid	8021B	2342
LCS 880-2342/1-A	Lab Control Sample	Total/NA	Solid	8021B	2342
LCSD 880-2342/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2342

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-1	SS01	Total/NA	Solid	8021B	2338
890-570-2	SS02	Total/NA	Solid	8021B	2338
890-570-3	SS03	Total/NA	Solid	8021B	2338
MB 880-2314/5-A	Method Blank	Total/NA	Solid	8021B	2314
MB 880-2338/5-A	Method Blank	Total/NA	Solid	8021B	2338
LCS 880-2338/1-A	Lab Control Sample	Total/NA	Solid	8021B	2338
LCSD 880-2338/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2338

Prep Batch: 2338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-1	SS01	Total/NA	Solid	5035	
890-570-2	SS02	Total/NA	Solid	5035	
890-570-3	SS03	Total/NA	Solid	5035	
MB 880-2338/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2338/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2338/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2342

Lab Sample ID 890-570-4	Client Sample ID SS04	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batcl
890-570-5	SS05	Total/NA	Solid	5035	
MB 880-2342/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2342/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2342/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 2421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-5	SS05	Total/NA	Solid	8015B NM	2454
MB 880-2454/1-A	Method Blank	Total/NA	Solid	8015B NM	2454
LCS 880-2454/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2454
LCSD 880-2454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2454

QC Association Summary

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

GC Semi VOA

Prep Batch: 2430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-1	SS01	Total/NA	Solid	8015NM Prep	
890-570-2	SS02	Total/NA	Solid	8015NM Prep	
890-570-3	SS03	Total/NA	Solid	8015NM Prep	
890-570-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-2430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2430/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 2454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-2454/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2454/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-1	SS01	Total/NA	Solid	8015B NM	2430
890-570-2	SS02	Total/NA	Solid	8015B NM	2430
890-570-3	SS03	Total/NA	Solid	8015B NM	2430
890-570-4	SS04	Total/NA	Solid	8015B NM	2430
MB 880-2430/1-A	Method Blank	Total/NA	Solid	8015B NM	2430
LCS 880-2430/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2430
LCSD 880-2430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2430

HPLC/IC

Leach Batch: 2341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-1	SS01	Soluble	Solid	DI Leach	
890-570-2	SS02	Soluble	Solid	DI Leach	
890-570-3	SS03	Soluble	Solid	DI Leach	
890-570-4	SS04	Soluble	Solid	DI Leach	
890-570-5	SS05	Soluble	Solid	DI Leach	
MB 880-2341/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2341/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2341/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-570-1	SS01	Soluble	Solid	300.0	2341
890-570-2	SS02	Soluble	Solid	300.0	2341
890-570-3	SS03	Soluble	Solid	300.0	2341
890-570-4	SS04	Soluble	Solid	300.0	2341
890-570-5	SS05	Soluble	Solid	300.0	2341
MB 880-2341/1-A	Method Blank	Soluble	Solid	300.0	2341
LCS 880-2341/2-A	Lab Control Sample	Soluble	Solid	300.0	2341
LCSD 880-2341/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2341

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: SS01

Lab Sample ID: 890-570-1

Matrix: Solid

Date Collected: 04/23/21 10:18 Date Received: 04/23/21 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		100	2315	04/27/21 07:15	KL	XM
Total/NA	Prep	8015NM Prep			2430	04/28/21 10:09	DM	XM
Total/NA	Analysis	8015B NM		10	2466	04/30/21 04:55	AJ	XM
Soluble	Leach	DI Leach			2341	04/26/21 15:56	SC	XM
Soluble	Analysis	300.0		1	2449	04/29/21 09:04	WP	XM

Client Sample ID: SS02 Lab Sample ID: 890-570-2 Date Collected: 04/23/21 10:21 **Matrix: Solid**

Date Received: 04/23/21 16:43

Analysis

300.0

Soluble

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 2338 04/26/21 15:48 KL XM Total/NA 8021B 100 2315 04/27/21 07:36 XMAnalysis KL Total/NA Prep 8015NM Prep 04/28/21 10:09 ΧM 2430 DM Total/NA 8015B NM ΧM Analysis 5 2466 04/30/21 05:16 AJΧM Soluble Leach DI Leach 2341 04/26/21 15:56 SC

Client Sample ID: SS03 Lab Sample ID: 890-570-3

2449

04/29/21 09:09

WP

XM

1

Date Collected: 04/23/21 10:23 **Matrix: Solid** Date Received: 04/23/21 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		100	2315	04/27/21 07:57	KL	XM
Total/NA	Prep	8015NM Prep			2430	04/28/21 10:09	DM	XM
Total/NA	Analysis	8015B NM		10	2466	04/30/21 05:44	AJ	XM
Soluble	Leach	DI Leach			2341	04/26/21 15:56	SC	XM
Soluble	Analysis	300.0		1	2449	04/29/21 09:25	WP	XM

Client Sample ID: SS04 Lab Sample ID: 890-570-4 Date Collected: 04/23/21 10:28

Date Received: 04/23/21 16:43

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2342	04/26/21 16:08	KL	XM
Total/NA	Analysis	8021B		100	2286	04/27/21 02:07	KL	XM
Total/NA	Prep	8015NM Prep			2430	04/28/21 10:09	DM	XM
Total/NA	Analysis	8015B NM		5	2466	04/30/21 06:11	AJ	XM
Soluble	Leach	DI Leach			2341	04/26/21 15:56	SC	XM
Soluble	Analysis	300.0		1	2449	04/29/21 09:31	WP	XM

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: SS05 Lab Sample ID: 890-570-5

Date Collected: 04/23/21 10:32 Matrix: Solid Date Received: 04/23/21 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2342	04/26/21 16:08	KL	XM
Total/NA	Analysis	8021B		100	2286	04/27/21 02:27	KL	XM
Total/NA	Prep	8015NM Prep			2454	04/28/21 13:56	DM	XM
Total/NA	Analysis	8015B NM		5	2421	04/29/21 07:01	AJ	XM
Soluble	Leach	DI Leach			2341	04/26/21 15:56	SC	XM
Soluble	Analysis	300.0		1	2449	04/29/21 09:36	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-570-1 Project/Site: ADU CTB SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority	P	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-20-21	06-30-21
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

ASTM

XM

Method Summary

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-570-1
SDG: TE012921047

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM

Protocol References:

DI Leach

ASTM = ASTM International

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

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

Laboratory References:

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

Deionized Water Leaching Procedure

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Sample Summary

Client: WSP USA Inc. Project/Site: ADU CTB Job ID: 890-570-1 SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-570-1	SS01	Solid	04/23/21 10:18	04/23/21 16:43	- 0.5
890-570-2	SS02	Solid	04/23/21 10:21	04/23/21 16:43	- 0.5
890-570-3	SS03	Solid	04/23/21 10:23	04/23/21 16:43	- 0.5
890-570-4	SS04	Solid	04/23/21 10:28	04/23/21 16:43	- 0.5
890-570-5	SS05	Solid	04/23/21 10:32	04/23/21 16:43	- 0.5

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×			Houston,	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333	00 Dal	as,TX Paso	(214) S	02-030 5)585-3	0 San	Antonic Jobock	TX (80		509-3334 94-1296														
		Hob	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	7550) Phoenix,	Z (480	-355-0	900) A	tlanta,C	3A (770	-449-8	300) T	ampa,	L (813	-620-2	000)			WW	xenc	www.xenco.com	٦	age			2	j	
Project Manager: [Dan Moir			Bill to: (if different)	Ĺ	Kyle Littrell	ittrell						\perp	Τ				8	ž o	rder	Com	Work Order Comments	S				
	WSP Permian office	e 		Company Name		TOE	XTO Energy						L	Pro	Program: UST/PST	I: UST	'PST]row	☐rownfields		궁	⁽¹⁾ pe	⊕perfund	_	<u> </u>
	3300 North A Street	et .		Address:		3104 e	Gree	3104 e Green Street	124						State of Project:	of Pr	oject:]	
e ZIP:	Midland, Tx 79705			City, State ZIP:		arisb	ad, N	Carlsbad, NM, 88220	20					Re	Reporting:Level II	g:Leve	=	∏evel III	=		_}§T/UST		뉳	4	l∯vel IV		
Phone:	(432) 236-3849		Email:	Email: Elliot.Lee@wsp.com,	.com,	Tacor	ma.Mc	Tacoma.Morrissey@wsp.com	(@wst	.com				P	Deliverables: EDD	oles:	8			ADaPT	P		Other:	5			┸
Project Name:	AD	ADU CTB	Tur	Turn Around						A	ANALYSIS	SISE	REQUEST	EST							-	\$	ork O	rder	Work Order Notes	Š	∟
Project Number:	TE01	TE012921047	Routine	ĕ ≭										_	_					_	င္ပ	st Ce	nter (10560	Cost Center 1056011001	7	
P.O. Number:			Rush:									_	_		_		_				n n	ident	# NA	PP2	1085	Incident # NAPP2108543210	
Sampler's Name:	Elli	Elliot Lee	Due Date)ate:							=																
SAMPLE RECEIPT		lank: Yes No	Wet Ice:	(Yes) No	3					_																	
Temperature (°C):	3.8/3.6	63	Thermometer ID	ē	iner)	D)			=																
Received Intact:			\neg))	onta	5)	8021	300.			890	0	570 Chain of Custody	<u>-</u>	מאנסמ	,		Ì	1 ()	-	T						
Sample Custody Seals:	Yes No	N/A Tota	Total Containers:		r of C	A 801	PA 0=	(EPA														lab,	if rece	ived by	y 4:30k	lab, if received by 4:30pm	
Sample Identification	(Matrix Date Sampled	Time Sampled	Depth	Numbe	TPH (EF	BTEX (Chlorid														Sa	mple	Com	Sample Comments	ış	
SS01		S 4/23/2021	10:18	0.5		×	×	×						-	\vdash	-					-		ō	Discrete	TO .		1_
SS02		S 4/23/2021	10:21	0.5		×	×	×						\vdash	-	-					+		D	Discrete	Ф		
SS03		S 4/23/2021	10:23	0.5		×	×	×					1	+	+	\perp	L			†	+		D	Discrete	l _o		
SS04		S 4/23/2021	10:28	0.5		×	×	×					-		+	1				1	+		ō	Discrete	0		
SS05		S 4/23/2021	10:32	0.5		×	×	×						-							+-			Discrete	0		
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Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Te TCLP / SPLP 6010:	PM Texas 11 <i>F</i> P 6010 : 8RCRA	≶ ≥	Sb A	Sb As Ba Be Sb As Ba Be		B Cd Cd Cr	င္ပ င္မ	Cr Co Cu Fe Pb Mg Mn Cu Pb Mn Mo Ni Se Ag	N Cr	Ou Fe Pb Mg Mn Mo Ni Mn Mo Ni Se Ag Ti U	V: Mg	A M	= ₹ C ₹	<u>Z</u>	Se	Ag s	SiO2	Na 9	3r TI 245.	Sr Tl Sn U V	70 /	. Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	: ₩	14
Notice: Signature of this document and relinquishment of semples constitutes a valid purchase of der 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 of expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$7 pp 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.	cument and relinquistants to some only for the cost of ge of \$75,00 will be appled.	nent of eamples con samples and shall n lied to each project a	constitutes a valid <u>purchase order from client company</u> to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions all not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contro	renase order from sponsibility for an for each sample :	client o y losse submitt	ompan or exp ad to X	y to Xe penses enco, b	nco, its ncurred at not ar	affiliate by the nalyzed.	s and su client if These	such ic	actors. SSes a	It assigned the state of the st	jns sta o circu uniess	ndard mstand	terms a es bey ously n	nd cor ond th egotiat	ndition: e contr	۰ "								
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1089 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199

Euroins Xenco, Carisbad

Chain of Custody Record

💸 eurofins

Environment Testing America

Custody Seals Intact. Custody Seal No	elinquished by		Close Cuts	Empty Kit Relinquished by	Deliverable Requested 1 II III IV, Other (specify)	-ossible nazard identification Jnconfirmed	naintain accreditation in the State of Origin listed above for analysis/tests/matri LC attention immediately If all requested accreditations are current to date re	Note: Since laboratory accreditations are subject to change, Eurofins Xenco LL					SS05 (890-570-5)	SS04 (890-570-4)	SS03 (890-570-3)	SS02 (890-570-2)	SS01 (890-570-1)		cample identification - Citett in (Fab in)	Sample Identification - Client ID (Lab ID)	Site:	ADU CTB	Project Name:	Email	Phone 432-704-5440(Tel)	State, Zip [.] TX, 79701	City Midland	Address. 1211 W. Florida Ave	Eurofins Xenco	Shipping/Receiving	Client Information (Sub Contract Lab)
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-570-1

SDG Number: TE012921047

List Source: Eurofins Carlsbad

Login Number: 570 List Number: 1 Creator: Clifton, Cloe

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

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-570-1 SDG Number: TE012921047

Login Number: 570
List Source: Eurofins Midland
List Number: 2
List Creation: 04/26/21 03:21 PM

Creator: Copeland, Tatiana

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-686-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

SKRAMER

Authorized for release by: 5/24/2021 6:58:36 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 9/16/2021 2:55:52 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: ADU CTB

Laboratory Job ID: 890-686-1
SDG: TE012921047

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG 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 RPD

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-686-1

SDG: TE012921047

Job ID: 890-686-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-686-1

Receipt

The samples were received on 5/18/2021 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-686-1) and PH01A (890-686-2).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-686-1) and PH01A (890-686-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: All quality control biased high indicating possible high bias in samples. All samples are non-detect under the implied high bias therefore the data has been qualified and reported. PH01 (890-686-1) and PH01A (890-686-2)

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-686-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: PH01

Date Collected: 05/18/21 10:00 Date Received: 05/18/21 15:15

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
Toluene	0.0146		0.00199	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
Ethylbenzene	0.0915		0.00199	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
m-Xylene & p-Xylene	0.320		0.00398	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
o-Xylene	0.161		0.00199	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
Xylenes, Total	0.481		0.00398	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
Total BTEX	0.587		0.00398	mg/Kg		05/19/21 12:00	05/19/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	217	S1+	70 - 130			05/19/21 12:00	05/19/21 18:35	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/19/21 12:00	05/19/21 18:35	1
Method: 8015B NM - Diesel Ran			_		_			
·								
Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics			RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/20/21 09:59	Analyzed 05/21/21 19:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 113		49.9	mg/Kg	<u>D</u>	05/20/21 09:59	05/21/21 19:09	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result				<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 113 2620		49.9	mg/Kg	<u>D</u>	05/20/21 09:59	05/21/21 19:09	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 113		49.9	mg/Kg	<u> </u>	05/20/21 09:59 05/20/21 09:59	05/21/21 19:09 05/21/21 19:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 113 2620		49.9	mg/Kg	<u>D</u>	05/20/21 09:59 05/20/21 09:59	05/21/21 19:09 05/21/21 19:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 113 2620 346	Qualifier	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/20/21 09:59 05/20/21 09:59 05/20/21 09:59	05/21/21 19:09 05/21/21 19:09 05/21/21 19:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 113 2620 346 3080	Qualifier	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/20/21 09:59 05/20/21 09:59 05/20/21 09:59 05/20/21 09:59	05/21/21 19:09 05/21/21 19:09 05/21/21 19:09 05/21/21 19:09	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 113 2620 346 3080 %Recovery	Qualifier	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/20/21 09:59 05/20/21 09:59 05/20/21 09:59 05/20/21 09:59 Prepared	05/21/21 19:09 05/21/21 19:09 05/21/21 19:09 05/21/21 19:09 Analyzed	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 113 2620 346 3080 %Recovery 103 103	Qualifier Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/20/21 09:59 05/20/21 09:59 05/20/21 09:59 05/20/21 09:59 Prepared 05/19/21 14:53	05/21/21 19:09 05/21/21 19:09 05/21/21 19:09 05/21/21 19:09 Analyzed 05/19/21 22:54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: PH01A Lab Sample ID: 890-686-2 Date Collected: 05/18/21 10:16 **Matrix: Solid**

16.5

5.00

mg/Kg

Date Received: 05/18/21 15:15

Sample Depth: 5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
Toluene	0.00464		0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
Total BTEX	0.00464		0.00397	mg/Kg		05/19/21 12:00	05/19/21 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			05/19/21 12:00	05/19/21 18:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/19/21 12:00	05/19/21 18:55	1

05/19/21 22:31

Matrix: Solid

Lab Sample ID: 890-686-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: PH01A

Date Collected: 05/18/21 10:16 Date Received: 05/18/21 15:15

Sample Depth: 5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/19/21 14:53	05/19/21 23:15	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/19/21 14:53	05/19/21 23:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/21 14:53	05/19/21 23:15	1
Total TPH	<50.0	U	50.0	mg/Kg		05/19/21 14:53	05/19/21 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/19/21 14:53	05/19/21 23:15	1
o-Terphenyl	115		70 - 130			05/19/21 14:53	05/19/21 23:15	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	471		5.04	mg/Kg			05/19/21 22:37	

Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-686-1

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-686-1	PH01	217 S1+	89	
890-686-2	PH01A	111	97	
LCS 880-3212/1-A	Lab Control Sample	109	101	
LCSD 880-3212/2-A	Lab Control Sample Dup	116	99	
MB 880-3212/5-A	Method Blank	88	94	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	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)	
890-686-1	PH01	103	103	
890-686-2	PH01A	103	115	
LCS 880-3271/2-A	Lab Control Sample	107	98	
LCSD 880-3271/3-A	Lab Control Sample Dup	102	95	
MB 880-3271/1-A	Method Blank	95	96	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-686-1

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3212/5-A

Matrix: Solid

Client: WSP USA Inc.

Project/Site: ADU CTB

Analysis Batch: 3218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3212

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/19/21 09:00	05/19/21 11:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/19/21 09:00	05/19/21 11:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/19/21 09:00	05/19/21 11:30	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 3218

Lab Sample ID: LCS 880-3212/1-A

Prep Type: Total/NA

Prep Batch: 3212

	Spi	(e LCS	i LCS			%Rec.	
Analyte	Add	ed Resul	t Qualifier Unit	. D	%Rec	Limits	
Benzene	0.1	0.07738	mg/l	Kg	77	70 - 130	
Toluene	0.1	0.08113	B mg/l	Kg	81	70 - 130	
Ethylbenzene	0.10	0.09084	l mg/l	Kg	91	70 - 130	
m-Xylene & p-Xylene	0.2	0.1903	ß mg/l	Kg	95	70 - 130	
o-Xylene	0.10	0.09828	B mg/l	Kg	98	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1 4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-3212/2-A

Matrix: Solid

Analysis Batch: 3218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3212

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07397		mg/Kg		74	70 - 130	5	35
Toluene	0.100	0.07950		mg/Kg		79	70 - 130	2	35
Ethylbenzene	0.100	0.09287		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	3	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

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

Lab Sample ID: MB 880-3271/1-A

Matrix: Solid Analysis Batch: 3308 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3271

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/20/21 09:59	05/21/21 10:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/20/21 09:59	05/21/21 10:42	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/21 09:59	05/21/21 10:42	1
Total TPH	<50.0	U	50.0	mg/Kg		05/20/21 09:59	05/21/21 10:42	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	05/20/21 09:59	05/21/21 10:42	1
o-Terphenyl	96		70 - 130	05/20/21 09:59	05/21/21 10:42	1

Lab Sample ID: LCS 880-3271/2-A

Matrix: Solid

Analysis Batch: 3308

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

Prep Batch: 3271

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1007 101 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1103 mg/Kg 110 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-3271/3-A

Matrix: Solid

Analysis Batch: 3308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3271

LCSD LCSD RPD Spike %Rec. Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 917.3 92 70 - 1309 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1080 108 mg/Kg 70 - 1302 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 102 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 95

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3235/1-A

Matrix: Solid

Analysis Batch: 3259

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 05/19/21 21:19

Chloride

QC Sample Results

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-686-1
SDG: TE012921047

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3235/2-A

Matrix: Solid

Analysis Batch: 3259

Client Sample ID: Lab Control Sample
Prep Type: Soluble

 Analyte
 LCS
 LCS
 %Rec.

 Chloride
 Added
 Result Res

Lab Sample ID: LCSD 880-3235/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

249.6

mg/Kg

100

90 - 110

2

250

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

GC VOA

Prep Batch: 3212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Total/NA	Solid	5035	
890-686-2	PH01A	Total/NA	Solid	5035	
MB 880-3212/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3212/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3212/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Total/NA	Solid	8021B	3212
890-686-2	PH01A	Total/NA	Solid	8021B	3212
MB 880-3212/5-A	Method Blank	Total/NA	Solid	8021B	3212
LCS 880-3212/1-A	Lab Control Sample	Total/NA	Solid	8021B	3212
LCSD 880-3212/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3212

GC Semi VOA

Analysis Batch: 3224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Total/NA	Solid	8015B NM	3250
890-686-2	PH01A	Total/NA	Solid	8015B NM	3250

Prep Batch: 3250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Total/NA	Solid	8015NM Prep	
890-686-2	PH01A	Total/NA	Solid	8015NM Prep	

Prep Batch: 3271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Total/NA	Solid	8015NM Prep	
MB 880-3271/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3271/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3308

Lab Sample ID 890-686-1	Client Sample ID PH01	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 3271
MB 880-3271/1-A	Method Blank	Total/NA	Solid	8015B NM	3271
LCS 880-3271/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3271
LCSD 880-3271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3271

HPLC/IC

Leach Batch: 3235

Released to Imaging: 9/16/2021 2:55:52 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Soluble	Solid	DI Leach	
890-686-2	PH01A	Soluble	Solid	DI Leach	
MB 880-3235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

HPLC/IC

Analysis Batch: 3259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-686-1	PH01	Soluble	Solid	300.0	3235
890-686-2	PH01A	Soluble	Solid	300.0	3235
MB 880-3235/1-A	Method Blank	Soluble	Solid	300.0	3235
LCS 880-3235/2-A	Lab Control Sample	Soluble	Solid	300.0	3235
LCSD 880-3235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3235

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-686-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: PH01

Date Received: 05/18/21 15:15

Lab Sample ID: 890-686-1 Date Collected: 05/18/21 10:00

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 Total/NA Prep 3212 05/19/21 12:00 KL XEN MID Total/NA Analysis 8021B 1 3218 05/19/21 18:35 KL XEN MID Total/NA Prep 8015NM Prep 3250 05/19/21 14:53 DM XEN MID Total/NA Analysis 8015B NM 1 3224 05/19/21 22:54 AJ XEN MID Total/NA Prep 8015NM Prep 3271 05/20/21 09:59 DM XEN MID Total/NA Analysis 8015B NM 1 3308 05/21/21 19:09 AJ XEN MID 05/19/21 15:00 XEN MID Soluble Leach DI Leach 3235 CH 300.0 3259 05/19/21 22:31 XEN MID Soluble Analysis 1 SC

Client Sample ID: PH01A Lab Sample ID: 890-686-2

Date Collected: 05/18/21 10:16 **Matrix: Solid** Date Received: 05/18/21 15:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3212	05/19/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3218	05/19/21 18:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			3250	05/19/21 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3224	05/19/21 23:15	AJ	XEN MID
Soluble	Leach	DI Leach			3235	05/19/21 15:00	CH	XEN MID
Soluble	Analysis	300.0		1	3259	05/19/21 22:37	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-686-1
SDG: TE012921047

Laboratory: Eurofins Xenco, 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	T104704400-20-21	06-30-21
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of		,	ou by the governming dutiestry.	ay molado dilalytoo loi
the agency does not of Analysis Method		Matrix	Analyte	y moduce analytes for
3 ,	fer certification.	,	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-686-1

SDG: TE012921047

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (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 XEN MID DI Leach Deionized Water Leaching Procedure 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.

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: ADU CTB Job ID: 890-686-1

SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-686-1	PH01	Solid	05/18/21 10:00	05/18/21 15:15	1'
890-686-2	PH01A	Solid	05/18/21 10:16	05/18/21 15:15	5'

5	"M.M	Relipquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 Circle Method(s) an								PH01A	10Hd	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Townstate (%C):		Sampler's Name	P.O. Number:	Project Number:	Project Name:		City, State ZIP: Midl:			Project Manager: Dan		X	
	tappy /	+	ent and relinquishment of samples and for the cost of samples and \$75.00 will be applied to each	Otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed									s 5/1	Matrix	Yes (NO) N/A	6	Yes	Temp pairs.	. T I !	William Mather	Eddy	TE012921047	ADU CTB	(432) 236-3849	Midland, Tx 79705	3300 North A Street	WSP USA Inc., Permian office	Dan Moir			
	Ordonez	Received by: (Signature)	ples constitutes a valid purchased shall not assume any responerations of \$5 for exponers and a charge of \$5 for exponers.	8RCRA 13PPM Texas 11 <i>f</i> ed						/ <u> </u>			5/18/2021 10:00 1'	Date Time I	Total Containers:	tion Fac		Thormometer ID		Due Date	Rush:	Routine	Turn Around	Email: will.n	City			Bill t	Hobbs, NM (575-392-7550	Houston,TX (Midland,TX	
	L8/21	Date/Time	se order from client company sibility for any losses or expe ach sample submitted to Xen	Texas 11 AI Sb As 010: 8RCRA Sb As		0	1				\dashv	ı ×	1 ×	Number TPH (EI			tain	Ž	41				round	Email: will.mather@wsp.com, dan.moir@wsp.com	City, State ZIP:		Company Name: XTO En	Bill to: (if different) Kyle Littrell	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Chain
6	2/2		to Xenco, its affiliates and sul nses incurred by the client if a co, but not analyzed. These to	Ba Be B Cd Ca Cr Ba Be Cd Cr Co Cu						-	\dashv	×	×	BTEX (I										@wsp.com			XTO Energy, Inc.	rell	00) Atlanta,GA (770-449-88	!14) 902-0300 San Antonio X (915)585-3443 Lubbock,	Chain of Custody
		Relinquished by: (Signature)	bcontractors. It assigns stanc such losses are due to circum arms will be enforced unless p	Co Cu Fe Pb Mg Pb Mn Mo Ni Se				+	-							890-686 Chain of Custody				-			ANALYSIS REQUEST	Deliv	Repo	s	Prog		00) Tampa,FL (813-620-20	,TX (210) 509-3334 TX (806)794-1296	`
		Received by: (Signature)	ard terms and conditions stances beyond the control reviously negotiated.	N K Se Ag				+																Deliverables: EDD	Reporting:Level IIevel III	State of Project:	Program: UST/PST ☐RP		00) www.xenco.com		Work Order No:
	M.	(Signature)		SiO2 Na Sr Ti Sn U V 1631/245.1/7470		/							0	Sample	lab, if rece	TAT starts the					Cost Center: 1067601001	Incident ID: nA	Work C	ADaPT Other:	□\$T/UST □RP		□ rownfields □RC	Work Order Comments	co.com Page		rder No:
201 Date 051448 Date 2018 1		Date/Time		U V Zn 470 / 7471 : Hg								Discrete	Discrete	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the					067601001	Incident ID: nAPP2111852118	Work Order Notes	3r:	Level IV		⊕perfund ☐		of		

Eurofins Xenco, Carlsbad

eurofins Environment Testing America

Chain of Custody Record

Ver 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-686-1

SDG Number: TE012921047

Login Number: 686 List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Ordonez, Gabby

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: 890-686-1 SDG Number: TE012921047

Login Number: 686
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 05/19/21 02:28 PM

Creator: Copeland, Tatiana

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-694-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

SCRAMER

Authorized for release by: 5/20/2021 1:26:11 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: ADU CTB

Laboratory Job ID: 890-694-1 SDG: TE012921047

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-694-1 Project/Site: ADU CTB SDG: TE012921047

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-694-1
SDG: TE012921047

Job ID: 890-694-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-694-1

Comments

No additional comments.

Receipt

The sample was received on 5/18/2021 3:15 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-694-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS01 (890-694-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015B NM: All quality control biased high indicating possible high bias in samples. All sample is non-detect under the implied high bias therefore the data has been qualified and reported. FS01 (890-694-1)

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-3258 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: FS01 (890-694-1) and (890-676-A-4-D).

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

Organic Prep

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

VOA Prep

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

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Matrix: Solid

Lab Sample ID: 890-694-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-694-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS01

Date Collected: 05/18/21 12:25 Date Received: 05/18/21 15:15

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:14	
Toluene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:14	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:14	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/19/21 12:00	05/19/21 18:14	
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/19/21 12:00	05/19/21 18:14	
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		05/19/21 12:00	05/19/21 18:14	
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/19/21 12:00	05/19/21 18:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130			05/19/21 12:00	05/19/21 18:14	
1,4-Difluorobenzene (Surr)	93		70 - 130			05/19/21 12:00	05/19/21 18:14	1
Method: 8015B NM - Diesel Rand	ge Organics (DI	RO) (GC)						
Method: 8015B NM - Diesel Rand	ge Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 05/19/21 14:53	Analyzed 05/19/21 23:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	50.0	mg/Kg	<u>D</u>	05/19/21 14:53	05/19/21 23:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u> </u>		
Analyte Gasoline Range Organics		Qualifier U	50.0	mg/Kg	<u>D</u>	05/19/21 14:53	05/19/21 23:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	05/19/21 14:53 05/19/21 14:53	05/19/21 23:36 05/19/21 23:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/19/21 14:53 05/19/21 14:53 05/19/21 14:53	05/19/21 23:36 05/19/21 23:36 05/19/21 23:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 05/19/21 14:53	05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 05/19/21 23:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 Prepared	05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 Prepared 05/19/21 14:53	05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 Analyzed 05/19/21 23:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	D	05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 05/19/21 14:53 Prepared 05/19/21 14:53	05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 05/19/21 23:36 Analyzed 05/19/21 23:36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Surrogate Summary

Job ID: 890-694-1 Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

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	(70-130)	(70-130)	
890-694-1	FS01	88	93	
LCS 880-3212/1-A	Lab Control Sample	109	101	
LCSD 880-3212/2-A	Lab Control Sample Dup	116	99	
MB 880-3212/5-A	Method Blank	88	94	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	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)	
890-694-1	FS01	97	112	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-694-1

Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3212/5-A

Matrix: Solid

Analysis Batch: 3218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3212

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/19/21 09:00	05/19/21 11:30	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/19/21 09:00	05/19/21 11:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepar	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/19/21	09:00	05/19/21 11:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/19/21	09:00	05/19/21 11:30	1

Lab Sample ID: LCS 880-3212/1-A

Matrix: Solid

Analysis Batch: 3218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3212

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.07738 mg/Kg 77 70 - 130 Toluene 0.100 0.08113 70 - 130 mg/Kg 81 Ethylbenzene 0.100 0.09084 mg/Kg 91 70 - 130 m-Xylene & p-Xylene 0.200 0.1903 mg/Kg 95 70 - 130 o-Xylene 0.100 0.09828 mg/Kg 98 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-3212/2-A

Matrix: Solid

Analysis Batch: 3218

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 3212

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07397		mg/Kg		74	70 - 130	5	35
Toluene	0.100	0.07950		mg/Kg		79	70 - 130	2	35
Ethylbenzene	0.100	0.09287		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	3	35
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-694-1
SDG: TE012921047

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3231/1-A Client Sample ID: Method Blank

Matrix: Solid
Analysis Batch: 3258

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit mg/Kg
 D Prepared mg/Kg
 Analyzed Dil Fac Di

Lab Sample ID: LCS 880-3231/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prop Type: Soluble

Matrix: Solid Prep Type: Soluble

Analysis Batch: 3258

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit D %Rec Limits Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-3231/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3258

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 254.5 102 90 - 110 20 mg/Kg

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-694-1 Project/Site: ADU CTB SDG: TE012921047

GC VOA

Prep Batch: 3212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-694-1	FS01	Total/NA	Solid	5035	
MB 880-3212/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3212/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3212/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3218

Lab Sample ID 890-694-1	Client Sample ID FS01	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 3212
MB 880-3212/5-A	Method Blank	Total/NA	Solid	8021B	3212
LCS 880-3212/1-A	Lab Control Sample	Total/NA	Solid	8021B	3212
LCSD 880-3212/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3212

GC Semi VOA

Analysis Batch: 3224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-694-1	FS01	Total/NA	Solid	8015B NM	3250

Prep Batch: 3250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-694-1	FS01	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3231

Lab Sample ID 890-694-1	Client Sample ID FS01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-3231/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3231/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3231/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3258

Lab Camarla ID	Olicant Occupie ID	D T	84 - 4	M - 411	David Datah
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-694-1	FS01	Soluble	Solid	300.0	3231
MB 880-3231/1-A	Method Blank	Soluble	Solid	300.0	3231
LCS 880-3231/2-A	Lab Control Sample	Soluble	Solid	300.0	3231
LCSD 880-3231/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3231

Lab Chronicle

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-694-1
SDG: TE012921047

Client Sample ID: FS01

Lab Sample ID: 890-694-1

Matrix: Solid

Date Collected: 05/18/21 12:25 Date Received: 05/18/21 15:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3212	05/19/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3218	05/19/21 18:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			3250	05/19/21 14:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3224	05/19/21 23:36	AJ	XEN MID
Soluble	Leach	DI Leach			3231	05/19/21 09:31	CH	XEN MID
Soluble	Analysis	300.0		10	3258	05/19/21 20:53	SC	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-694-1
SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-21
The following analytes the agency does not of	•	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for w
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-694-1

SDG: TE012921047

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

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: ADU CTB Job ID: 890-694-1

SDG: TE012921047

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

Eurofins Xenco, Carlsbad

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Chain of Custody Record

eurofins :

Environment Testing

Project Name: ADU CTB State, Zip: TX, 79701 Possible Hazard Identification Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the sample shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status of the sample shipped back to the sample shippe FS01 (890-694-1) 432-704-5440(Tel) Midland 1211 W Florida Ave impty Kit Relinquished by Deliverable Requested | II III IV Other (specify) elinquished by: elinquished by: ample Identification - Client ID (Lab ID) elinquished by: urofins Xenco Custody Seals Intact. npping/Receiving lient Information (Sub Contract Lab) Yes ∆ No APT SE Custody Seal No Project #: 89000004 Due Date Requested 5/21/2021 Sampler TAT Requested (days) Phone: Date/Time Primary Deliverable Rank. 2 **^**0# о # Date/Time ate/Time Sample Date 5/18/21 Mountain Sample Time 12 25 (C=comp, Sample Preservation Code: Type Company Company Matrix Solid Kramer Jessica essica kramer@eurofinset.com Field Filtered Sample (Yes or No) lime 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 Month Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH Received by × Cooler Temperature(s) °C and Other Remarks. 300_ORGFM_28D/DI_LEACH Chloride 8021B/6035FP_Calc BTEX × Analysis Requested State of Origin New Mexico Carrier Tracking No(s) Total Number of containers A HCL
B NaOH
C Zin Acetate
D - Nitric Acid
E NaH'SO4
F MeOH
G Amchlor
H Ascorbic Acid Page: Page 1 of 1 COC No: 890-223 1 Preservation Codes 390-694-1 ice
Di Water
EDTA
EDA If the laboratory does not currently should be brought to Eurofins Xenco Q Na2SO3
R Na2SO3
S H2SO4
T TSP Dodecahydrate
U - Acetone
V MCAA
W pH 4-5
Z other (specify) M Hexane N None O AsNaO2 P-Na2O4S Q Na2SO3 R Na2S2O3 Company Company Ver: 11/01/2020 Months

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-694-1

SDG Number: TE012921047

Login Number: 694 List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Ordonez, Gabby

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 ampered 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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 890-694-1 SDG Number: TE012921047

Login Number: 694 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 05/19/21 02:25 PM

Creator: Copeland, Tatiana

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

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-724-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

SCRAMER

Authorized for release by: 5/28/2021 1:40:19 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 9/16/2021 2:55:52 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: ADU CTB

Laboratory Job ID: 890-724-1

SDG: TE012921047

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-724-1 Project/Site: ADU CTB SDG: TE012921047

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery

CFL Contains Free Liquid Colony Forming Unit CFU **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) Limit of Quantitation (DoD/DOE) LOQ

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit PRES

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-724-1 Project/Site: ADU CTB SDG: TE012921047

Job ID: 890-724-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-724-1

Receipt

The samples were received on 5/24/2021 4:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: FS02 (890-724-1), FS03 (890-724-2), FS04 (890-724-3) and SW01 (890-724-4). BTEX8021

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW01 (890-724-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Lab Sample ID: 890-724-1

Client: WSP USA Inc. Job ID: 890-724-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS02

Date Collected: 05/20/21 09:25 Date Received: 05/24/21 16:32

Sample Depth: - 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 16:00	05/27/21 13:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/26/21 16:00	05/27/21 13:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/26/21 16:00	05/27/21 13:10	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/26/21 10:57	05/26/21 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/26/21 10:57	05/26/21 17:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 10:57	05/26/21 17:46	1
Total TPH	<49.9	U	49.9	mg/Kg		05/26/21 10:57	05/26/21 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/26/21 10:57	05/26/21 17:46	1
o-Terphenyl	115		70 - 130			05/26/21 10:57	05/26/21 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	12.3		5.00	mg/Kg			05/26/21 21:58	1		

Client Sample ID: FS03 Date Collected: 05/20/21 13:39 Date Received: 05/24/21 16:32

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 16:00	05/27/21 13:30	-
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 16:00	05/27/21 13:30	•
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 16:00	05/27/21 13:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 16:00	05/27/21 13:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/26/21 16:00	05/27/21 13:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 16:00	05/27/21 13:30	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 16:00	05/27/21 13:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			05/26/21 16:00	05/27/21 13:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130			05/26/21 16:00	05/27/21 13:30	1

Lab Sample ID: 890-724-2

Matrix: Solid

Lab Sample ID: 890-724-2

Job ID: 890-724-1 SDG: TE012921047

Client: WSP USA Inc. Project/Site: ADU CTB

Date Collected: 05/20/21 13:39 Date Received: 05/24/21 16:32

Client Sample ID: FS03

Sample Depth: - 2

Method: 8015B NM - Diesel Rai	nge 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		05/26/21 10:57	05/26/21 18:29	1
Diesel Range Organics (Over C10-C28)	2270		50.0	mg/Kg		05/26/21 10:57	05/26/21 18:29	1
Oll Range Organics (Over C28-C36)	368		50.0	mg/Kg		05/26/21 10:57	05/26/21 18:29	1
Total TPH	2640		50.0	mg/Kg		05/26/21 10:57	05/26/21 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/26/21 10:57	05/26/21 18:29	1
o-Terphenyl	98		70 - 130			05/26/21 10:57	05/26/21 18:29	1
- Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		5.00	mg/Kg			05/26/21 22:03	1

Client Sample ID: FS04 Lab Sample ID: 890-724-3 **Matrix: Solid**

Date Collected: 05/20/21 13:41 Date Received: 05/24/21 16:32

Sample Depth: - 2

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 04:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/26/21 09:40	05/27/21 04:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130			05/26/21 09:40	05/27/21 04:10	1
Method: 8015B NM - Diesel Rand	ge Organics (DI	RO) (GC)						
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics				Mg/Kg	<u>D</u>	Prepared 05/26/21 10:57	Analyzed 05/26/21 18:50	
Analyte Gasoline Range Organics (GRO)-C6-C10				mg/Kg	<u>D</u>	<u> </u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0		<u>D</u>	05/26/21 10:57	05/26/21 18:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	<u>D</u>	05/26/21 10:57	05/26/21 18:50	
Analyte Gasoline Range Organics	<50.0 71.1	U	50.0	mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57	05/26/21 18:50 05/26/21 18:50	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 71.1 <50.0	U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 18:50 05/26/21 18:50 05/26/21 18:50	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<50.0 71.1 <50.0 71.1	U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 05/26/21 18:50	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	<50.0 71.1 <50.0 71.1 %Recovery	U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 Prepared	05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.0 71.1 <50.0 71.1 **Recovery 96 100	U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 Prepared 05/26/21 10:57	05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 Analyzed 05/26/21 18:50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.0 71.1 <50.0 71.1 %Recovery 96 100 pomatography -	U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 Prepared 05/26/21 10:57	05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 05/26/21 18:50 Analyzed 05/26/21 18:50	1 1

Lab Sample ID: 890-724-4

Client Sample Results

Client: WSP USA Inc. Job ID: 890-724-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: SW01

Date Collected: 05/20/21 13:45 Date Received: 05/24/21 16:32

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 09:40	05/27/21 04:30	
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 09:40	05/27/21 04:30	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 09:40	05/27/21 04:30	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 09:40	05/27/21 04:30	
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 09:40	05/27/21 04:30	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 09:40	05/27/21 04:30	
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 09:40	05/27/21 04:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			05/26/21 09:40	05/27/21 04:30	
1,4-Difluorobenzene (Surr)	124		70 - 130			05/26/21 09:40	05/27/21 04:30	-
Method: 8015B NM - Diesel Ran	ge Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 10.57	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/26/21 10:57	Analyzed 05/26/21 19:12	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>.</u>		
	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	05/26/21 10:57	05/26/21 19:12	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57	05/26/21 19:12 05/26/21 19:12	
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 U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 19:12 05/26/21 19:12 05/26/21 19:12	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 05/26/21 19:12	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 Prepared	05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 Prepared 05/26/21 10:57	05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 Analyzed 05/26/21 19:12	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D_	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 Prepared 05/26/21 10:57	05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 05/26/21 19:12 Analyzed 05/26/21 19:12	Dil Fac

Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-724-1

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-724-1	FS02	107	101	
0-724-2	FS03	127	104	
0-724-3	FS04	93	105	
0-724-4	SW01	107	124	
S 880-3517/1-A	Lab Control Sample	81	116	
S 880-3541/1-A	Lab Control Sample	112	104	
SD 880-3517/2-A	Lab Control Sample Dup	84	117	
SD 880-3541/2-A	Lab Control Sample Dup	113	104	
3 880-3414/5-A	Method Blank	109	114	
3 880-3517/5-A	Method Blank	98	87	
3 880-3541/5-A	Method Blank	87	96	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-724-1	FS02	112	115
890-724-2	FS03	100	98
890-724-3	FS04	96	100
890-724-4	SW01	71	70
LCS 880-3527/2-A	Lab Control Sample	100	95
LCSD 880-3527/3-A	Lab Control Sample Dup	101	96
MB 880-3527/1-A	Method Blank	100	103

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-724-1 SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3414/5-A

Matrix: Solid

Client: WSP USA Inc.

Project/Site: ADU CTB

Analysis Batch: 3497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3414

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 08:45	05/26/21 11:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	0.	05/26/21 08:45	05/26/21 11:39	1
1,4-Difluorobenzene (Surr)	114		70 - 130	0	05/26/21 08:45	05/26/21 11:39	1

Lab Sample ID: MB 880-3517/5-A

Matrix: Solid

Analysis Batch: 3497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3517

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/26/21 23:22	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/26/21 09:40	05/26/21 23:22	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/26/21 09:40	05/26/21 23:22	1

Lab Sample ID: LCS 880-3517/1-A

Matrix: Solid

Analysis Batch: 3497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3517

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1039		mg/Kg		104	70 - 130	
0.100	0.09244		mg/Kg		92	70 - 130	
0.100	0.08359		mg/Kg		84	70 - 130	
0.200	0.1660		mg/Kg		83	70 - 130	
0.100	0.08061		mg/Kg		81	70 - 130	
	Added 0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.1039 0.100 0.09244 0.100 0.08359 0.200 0.1660	Added Result Qualifier 0.100 0.1039 0.100 0.09244 0.100 0.08359 0.200 0.1660	Added Result Qualifier Unit 0.100 0.1039 mg/Kg 0.100 0.09244 mg/Kg 0.100 0.08359 mg/Kg 0.200 0.1660 mg/Kg	Added Result Qualifier Unit D 0.100 0.1039 mg/Kg 0.100 0.09244 mg/Kg 0.100 0.08359 mg/Kg 0.200 0.1660 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1039 mg/Kg 104 0.100 0.09244 mg/Kg 92 0.100 0.08359 mg/Kg 84 0.200 0.1660 mg/Kg 83	Added Result Qualifier Unit D %Rec Limits 0.100 0.1039 mg/Kg 104 70 - 130 0.100 0.09244 mg/Kg 92 70 - 130 0.100 0.08359 mg/Kg 84 70 - 130 0.200 0.1660 mg/Kg 83 70 - 130

LCS LCS

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

Job ID: 890-724-1 SDG: TE012921047

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

Lab Sample ID: LCSD 880-3517/2-A

Matrix: Solid Analysis Batch: 3497

Client: WSP USA Inc.

Project/Site: ADU CTB

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3517

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	5	35
Toluene	0.100	0.09767		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.08869		mg/Kg		89	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	4	35
o-Xylene	0.100	0.08510		mg/Kg		85	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1 4-Difluorobenzene (Surr)	117		70 - 130

Client Sample ID: Method Blank Lab Sample ID: MB 880-3541/5-A

Matrix: Solid

Analysis Batch: 3558

Prep Type: Total/NA

Prep Batch: 3541

MR MR

	MID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 16:00	05/27/21 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 16:00	05/27/21 11:26	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 16:00	05/27/21 11:26	1

MB MB

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/26/21 16:00	05/27/21 11:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/26/21 16:00	05/27/21 11:26	1

Lab Sample ID: LCS 880-3541/1-A

Matrix: Solid

Analysis Batch: 3558

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3541

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1094		mg/Kg		109	70 - 130	
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2293		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-3541/2-A

Matrix: Solid

Analysis Batch: 3558

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3541 RPD

Spike LCSD LCSD %Rec. Analyte Added Result Qualifier Limit Unit %Rec Limits Benzene 0.100 0.1083 mg/Kg 108 70 - 130

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Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-724-1 SDG: TE012921047

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

Lab Sample ID: LCSD 880-3541/2-A Matrix: Solid

Analysis Batch: 3558

Client Sample	ID:	Lab	Control	Sample	Dup
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Prep Type: Total/NA Prep Batch: 3541

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1039		mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	3	35
o-Xylene	0.100	0.1177		mg/Kg		118	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-3527/1-A

Matrix: Solid

Analysis Batch: 3504

: 3504 MB MB Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3527

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 05/26/21 10:57 05/26/21 12:45 (GRO)-C6-C10 05/26/21 12:45 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/26/21 10:57 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/26/21 10:57 05/26/21 12:45 Total TPH <50.0 U 50.0 mg/Kg 05/26/21 10:57 05/26/21 12:45

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/26/21 10:57	05/26/21 12:45	1
o-Terphenyl	103		70 - 130	05/26/21 10:57	05/26/21 12:45	1

Lab Sample ID: LCS 880-3527/2-A

Matrix: Solid

Analysis Batch: 3504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3527

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1073		mg/Kg		107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1174		mg/Kg		117	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	100	70 - 130
o-Terphenvl	95	70 - 130

Lab Sample ID: LCSD 880-3527/3-A

Matrix: Solid

Analysis Batch: 3504

Client Sar	nnla ID:	Lah	Control	Sample	Dun
Ciletit Sai	.טו שוקוו	Lau	COILLIO	Sample	; Dup

Prep Type: Total/NA

Prep Batch: 3527

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	967.4		mg/Kg		97	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1193		mg/Kg		119	70 _ 130	2	20
C10-C28)									

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Job ID: 890-724-1

Client: WSP USA Inc. SDG: TE012921047 Project/Site: ADU CTB

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

MR MR

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	96		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3467/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 3542

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/27/21 03:37	1

Lab Sample ID: LCS 880-3467/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble Analysis Batch: 3542**

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	257.6		mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-3467/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3542

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	257.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-724-4 MS Client Sample ID: SW01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3542

	Sample	Sample	Spike		MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	6.16		252	262.9		ma/Ka		102	90 - 110	

Lab Sample ID: 890-724-4 MSD Client Sample ID: SW01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3542

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	6.16		252	262.9		mg/Kg	_	102	90 - 110	0	20

Lab Sample ID: MB 880-3466/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3556

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/26/21 19:33	1

Lab Sample ID: LCS 880-3466/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3556

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	246.6		mg/Kg		99	90 - 110	

QC Sample Results

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-724-1

SDG: TE012921047

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-3466/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3556

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	245.9		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-724-1

Project/Site: ADU CTB

SDG: TE012921047

GC VOA

Prep Batch: 3414	Pre	р Ва	tch:	3414
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3414/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 3497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-3	FS04	Total/NA	Solid	8021B	3517
890-724-4	SW01	Total/NA	Solid	8021B	3517
MB 880-3414/5-A	Method Blank	Total/NA	Solid	8021B	3414
MB 880-3517/5-A	Method Blank	Total/NA	Solid	8021B	3517
LCS 880-3517/1-A	Lab Control Sample	Total/NA	Solid	8021B	3517
LCSD 880-3517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3517

Prep Batch: 3517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-3	FS04	Total/NA	Solid	5035	<u> </u>
890-724-4	SW01	Total/NA	Solid	5035	
MB 880-3517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3517/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 3541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-1	FS02	Total/NA	Solid	5035	
890-724-2	FS03	Total/NA	Solid	5035	
MB 880-3541/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3541/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3541/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-1	FS02	Total/NA	Solid	8021B	3541
890-724-2	FS03	Total/NA	Solid	8021B	3541
MB 880-3541/5-A	Method Blank	Total/NA	Solid	8021B	3541
LCS 880-3541/1-A	Lab Control Sample	Total/NA	Solid	8021B	3541
LCSD 880-3541/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3541

GC Semi VOA

Analysis Batch: 3504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-1	FS02	Total/NA	Solid	8015B NM	3527
890-724-2	FS03	Total/NA	Solid	8015B NM	3527
890-724-3	FS04	Total/NA	Solid	8015B NM	3527
890-724-4	SW01	Total/NA	Solid	8015B NM	3527
MB 880-3527/1-A	Method Blank	Total/NA	Solid	8015B NM	3527
LCS 880-3527/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3527
LCSD 880-3527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3527

Prep Batch: 3527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-1	FS02	Total/NA	Solid	8015NM Prep	
890-724-2	FS03	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-724-1

Project/Site: ADU CTB

SDG: TE012921047

GC Semi VOA (Continued)

Prep Batch: 3527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-3	FS04	Total/NA	Solid	8015NM Prep	
890-724-4	SW01	Total/NA	Solid	8015NM Prep	
MB 880-3527/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3527/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-1	FS02	Soluble	Solid	DI Leach	
890-724-2	FS03	Soluble	Solid	DI Leach	
890-724-3	FS04	Soluble	Solid	DI Leach	
MB 880-3466/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3466/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3466/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 3467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-4	SW01	Soluble	Solid	DI Leach	
MB 880-3467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-724-4 MS	SW01	Soluble	Solid	DI Leach	
890-724-4 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 3542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-4	SW01	Soluble	Solid	300.0	3467
MB 880-3467/1-A	Method Blank	Soluble	Solid	300.0	3467
LCS 880-3467/2-A	Lab Control Sample	Soluble	Solid	300.0	3467
LCSD 880-3467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3467
890-724-4 MS	SW01	Soluble	Solid	300.0	3467
890-724-4 MSD	SW01	Soluble	Solid	300.0	3467

Analysis Batch: 3556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-724-1	FS02	Soluble	Solid	300.0	3466
890-724-2	FS03	Soluble	Solid	300.0	3466
890-724-3	FS04	Soluble	Solid	300.0	3466
MB 880-3466/1-A	Method Blank	Soluble	Solid	300.0	3466
LCS 880-3466/2-A	Lab Control Sample	Soluble	Solid	300.0	3466
LCSD 880-3466/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3466

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Client: WSP USA Inc. Job ID: 890-724-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS02

Lab Sample ID: 890-724-1

Matrix: Solid

Date Collected: 05/20/21 09:25 Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3541	05/26/21 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3558	05/27/21 13:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			3466	05/25/21 11:52	SC	XEN MID
Soluble	Analysis	300.0		1	3556	05/26/21 21:58	WP	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-724-2 Date Collected: 05/20/21 13:39

Date Received: 05/24/21 16:32

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3541 05/26/21 16:00 KL XEN MID 8021B 05/27/21 13:30 Total/NA 3558 XEN MID Analysis 1 KL Total/NA XEN MID Prep 8015NM Prep 3527 05/26/21 10:57 DM Total/NA 8015B NM XEN MID Analysis 3504 05/26/21 18:29 AJ XEN MID Soluble Leach DI Leach 3466 05/25/21 11:52 SC XEN MID Soluble Analysis 300.0 1 3556 05/26/21 22:03 WP

Client Sample ID: FS04 Lab Sample ID: 890-724-3

Date Collected: 05/20/21 13:41 **Matrix: Solid** Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 04:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			3466	05/25/21 11:52	SC	XEN MID
Soluble	Analysis	300.0		1	3556	05/26/21 22:08	WP	XEN MID

Client Sample ID: SW01 Lab Sample ID: 890-724-4 Date Collected: 05/20/21 13:45

Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 04:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 19:12	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300 0		1	3542	05/27/21 03:52	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-724-1 Project/Site: ADU CTB SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Method Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-724-1

SDG: TE012921047

Method	Volatile Organic Compounds (GC) B NM Diesel Range Organics (DRO) (GC)	Protocol	Laboratory
8021B	5B 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.

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: ADU CTB Job ID: 890-724-1

SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-724-1	FS02	Solid	05/20/21 09:25	05/24/21 16:32	
890-724-2	FS03	Solid	05/20/21 13:39	05/24/21 16:32	-
890-724-3	FS04	Solid	05/20/21 13:41	05/24/21 16:32	- 2
890-724-4	SW01	Solid	05/20/21 13:45	05/24/21 16:32	0 -

Company Name: Project Manager:

WSP USA Inc., Permian office

Dan Moir

Address:

3300 North A Street

12 13

Chain of Custody

Address:	Company Nan	Bill to: (if differen	lobbs,NM (575-392-7550) Phoenix	Midland, TX (432-704-5	Houston, TX (281) 240-4;	
!	Company Name: XTO Energy, Inc.	Bill to: (if different) Kyle Littrell	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	1
State of Project:	Program: UST/PST		3-620-2000) w			

□RP □rownfields □RC **Work Order Comments**

⊕perfund

Revised Date 051418 Rev. 2018 1				Received by: (Signature) Date/Time	nd the control		i K Se Ag SiO2 Na Sr Tl Sn U V 1631 / 245.1 / 7470 /					Composite	Composite	Composite	Composite	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the				-	API: 30-015-37588	AFE: PA.2020.02621.EXP.01	Work Order Notes	DD ADaPT Other:	∏evel III ☐\$T/UST ☐
				Relinquished by: (Signature) Re	of Service. 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.		Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Co Cu Pb Mn Mo Ni Se Ag Ti U											890-724 Chain of Custody							ANALYSIS REQUEST	Deliverables: EDD	Reporting:Level II
	6	4	24.21 1629	Date/Time Re	nt company to Aenco, its arrillates sees or expenses incurred by the c nitted to Xenco, but not analyzed.	Y	I Sb As Ba Be B Cd Sb As Ba Be Cd Cr					×	×	×	× ×	TPH (E	EPA	0=80))				_		n, dan.moir@wsp.com	
			7	gnature)	and purchase order from che any responsibility for any lo- le of \$5 for each sample subr		RCRA 13PPM Texas 11 A	+				5 0-2' 1	11 2' 1	39 2' 1	4 1.5' 1	led Depth		2.0-		Thermometer ID	Wet Ice: Yes No	Due Date:	Rush:	Routine [V	Turn Around	Email: will.mather@wsp.com, dan.moir@wsp.com	City, State ZIP:
		C	we cut	Received by: (Signature	or samples constitutes at ples and shall not assume to each project and a char-		00		2			5/20/2021 13:45	5/20/2021 13:41	5/20/2021 13:39	5/20/2021 9:24	Date Time Sampled Sampled	Total Containers:		- 00-MMZ		Yes) No				ΣТВ	E	
		0		(Signature)	rable only for the cost of saminger of \$75.00 will be applied		otal 200.7 / 6010 200.8 / 6020:				/	S	s	σ	S	lification Matrix	s: Yes (No) N/A	Yes MO N/A	(Yes) No	4.O/3.8	IPT Temp Blank:	William Mather	Eddy	TE012921047	АДИ СТВ	(432) 236-3849	Midland, Tx 79705
		3	W. M	Relinquished by:	of Service. Xenco will be lof Xenco. A minimum cha	Notice Simple and this	Total 200.7 / 6010 Circle Method(s) a)	SW01	FS04	FS03	FS02	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:

Work Order No:

www.xenco.com

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-724-1

SDG Number: TE012921047

Login Number: 724 List Source: Eurofins Xenco, 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: 890-724-1

SDG Number: TE012921047

Login Number: 724 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 05/26/21 11:23 AM

Creator: Copeland, Tatiana

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

Eurofins Xenco, Carlsbad

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-725-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

MEAMER

Authorized for release by: 5/27/2021 6:11:07 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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Client: WSP USA Inc.
Project/Site: ADU CTB

Laboratory Job ID: 890-725-1
SDG: TE012921047

Table of Contents

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Qualifier Description

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

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, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

(Qualifier	Qualifier Description
ι	J	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

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

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

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)

Quality Control

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-725-1

SDG: TE012921047

Job ID: 890-725-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-725-1

Receipt

The samples were received on 5/24/2021 4:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS24 (890-725-1), FS25 (890-725-2), FS26 (890-725-3), FS27 (890-725-4), FS28 (890-725-5), FS29 (890-725-6), FS30 (890-725-7), FS31 (890-725-8), SW02 (890-725-9), SW03 (890-725-10), SW04 (890-725-11), SW05 (890-725-12) and SW06 (890-725-13).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-3531 and analytical batch 880-3532 were outside control limits: Benzene. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: SW02 (890-725-9) and SW03 (890-725-10). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW03 (890-725-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS24 (890-725-1), FS25 (890-725-2), FS26 (890-725-3), FS27 (890-725-4), FS28 (890-725-5), FS29 (890-725-6) and FS31 (890-725-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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.

Project/Site: ADU CTB

Job ID: 890-725-1
SDG: TE012921047

Client Sample ID: FS24 Lab Sample ID: 890-725-1

Date Collected: 05/24/21 13:20 Matrix: Solid
Date Received: 05/24/21 16:32

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00623		0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
Toluene	0.00229		0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
Total BTEX	0.00852		0.00398	mg/Kg		05/26/21 09:40	05/27/21 04:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/26/21 09:40	05/27/21 04:51	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/26/21 09:40	05/27/21 04:51	1
Method: 8015B NM - Diesel Ranç Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mathadi 9045D NM - Diagal Dana	na Ormaniaa (Di	20) (00)						
Analyte	Result	Qualifier			<u>D</u>	<u>.</u>	Analyzed	
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 01:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/26/21 14:55	05/27/21 01:13	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u> </u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13	1
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 U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13 05/27/21 01:13	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13	1 1
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 U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13 05/27/21 01:13	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 05/27/21 01:13	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 Analyzed	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 Analyzed 05/27/21 01:13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 05/27/21 01:13 Analyzed 05/27/21 01:13	1 1 1 Dil Fac

Client Sample ID: FS25

Date Collected: 05/24/21 13:22

Lab Sample ID: 890-725-2

Matrix: Solid

Date Received: 05/24/21 16:32

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/26/21 09:40	05/27/21 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/26/21 09:40	05/27/21 05:11	1
1,4-Difluorobenzene (Surr)	110		70 - 130			05/26/21 09:40	05/27/21 05:11	1

Lab Sample ID: 890-725-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS25

Date Collected: 05/24/21 13:22 Date Received: 05/24/21 16:32

Sample Depth: - 4.5

Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 01:34	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 01:34	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 01:34	1
Total TPH	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/26/21 14:55	05/27/21 01:34	1
o-Terphenyl	90		70 - 130			05/26/21 14:55	05/27/21 01:34	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.96	mg/Kg			05/27/21 04:11	1

Client Sample ID: FS26 Lab Sample ID: 890-725-3 Matrix: Solid

Date Collected: 05/24/21 13:26 Date Received: 05/24/21 16:32

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/26/21 09:40	05/27/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/26/21 09:40	05/27/21 05:32	1
1,4-Difluorobenzene (Surr)	108		70 - 130			05/26/21 09:40	05/27/21 05:32	1
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 05/06/04 14-55	Analyzed	
	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 01:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 67.0	Qualifier U	49.9	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55	05/27/21 01:54 05/27/21 01:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 67.0 <49.9	Qualifier U	49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55	05/27/21 01:54	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 67.0 <49.9 67.0	Qualifier U	49.9 49.9 49.9 49.9	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 05/27/21 01:54	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 Analyzed	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 Analyzed 05/27/21 01:54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 05/27/21 01:54 Analyzed 05/27/21 01:54	1 1 1

Lab Sample ID: 890-725-4

Job ID: 890-725-1

Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS27

Date Collected: 05/24/21 13:28 Date Received: 05/24/21 16:32

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00286		0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/26/21 09:40	05/27/21 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			05/26/21 09:40	05/27/21 05:52	1
1,4-Difluorobenzene (Surr)	124		70 - 130			05/26/21 09:40	05/27/21 05:52	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		05/26/21 14:55	05/27/21 02:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/27/21 02:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/27/21 02:15	1
Total TPH	<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/27/21 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			05/26/21 14:55	05/27/21 02:15	1
o-Terphenyl	85		70 - 130			05/26/21 14:55	05/27/21 02:15	1

Method: 300.0 - Anions, Ion Chror	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.4	4.99	mg/Kg			05/27/21 04:21	1

Client Sample ID: FS28 Lab Sample ID: 890-725-5 Date Collected: 05/24/21 13:30 **Matrix: Solid**

Date Received: 05/24/21 16:32

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00449		0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:13	
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 06:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 06:13	1
Total BTEX	0.00449		0.00398	mg/Kg		05/26/21 09:40	05/27/21 06:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/26/21 09:40	05/27/21 06:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/26/21 09:40	05/27/21 06:13	1

Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-725-1 SDG: TE012921047

Lab Sample ID: 890-725-5

Matrix: Solid

Sample Depth: - 4

Client Sample ID: FS28

Date Collected: 05/24/21 13:30

Date Received: 05/24/21 16:32

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 02:36	1
Diesel Range Organics (Over C10-C28)	291		49.9	mg/Kg		05/26/21 14:55	05/27/21 02:36	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 02:36	1
Total TPH	291		49.9	mg/Kg		05/26/21 14:55	05/27/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			05/26/21 14:55	05/27/21 02:36	1
o-Terphenyl	104		70 - 130			05/26/21 14:55	05/27/21 02:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.6		5.05	mg/Kg			05/27/21 04:36	

Client Sample ID: FS29 Lab Sample ID: 890-725-6

Date Collected: 05/24/21 13:34 Matrix: Solid

Date Received: 05/24/21 16:32

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/27/21 06:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/26/21 09:40	05/27/21 06:33	1
1,4-Difluorobenzene (Surr)	112		70 - 130			05/26/21 09:40	05/27/21 06:33	1
Method: 8015B NM - Diesel Rang Analyte	• •	, , ,	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 05/00/04 44-55	Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 02:57	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier		mg/Kg	<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier	50.0		<u> </u>	05/26/21 14:55	05/27/21 02:57	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	05/26/21 14:55	05/27/21 02:57	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 586	Qualifier U	50.0	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55	05/27/21 02:57 05/27/21 02:57	,
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <50.0 586 <50.0	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 02:57 05/27/21 02:57 05/27/21 02:57	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <50.0 586 <50.0 586	Qualifier U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 05/27/21 02:57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics	Result	Qualifier U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 Analyzed 05/27/21 02:57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 05/27/21 02:57 Analyzed 05/27/21 02:57	Dil Fac

Job ID: 890-725-1 SDG: TE012921047

Client: WSP USA Inc. Project/Site: ADU CTB

Lab Sample ID: 890-725-7

Client Sample ID: FS30 Date Collected: 05/24/21 13:36 Matrix: Solid Date Received: 05/24/21 16:32

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 09:40	05/27/21 06:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/26/21 09:40	05/27/21 06:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/26/21 09:40	05/27/21 06:54	1
Method: 8015B NM - Diesel Ranç Analyte	• • •	, , ,	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	• • •	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 03:18	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	05/26/21 14:55	05/27/21 03:18	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	05/26/21 14:55	05/27/21 03:18	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55	05/27/21 03:18 05/27/21 03:18	1
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 U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 03:18 05/27/21 03:18 05/27/21 03:18	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 05/27/21 03:18	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u> </u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 Analyzed 05/27/21 03:18	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 05/27/21 03:18 Analyzed 05/27/21 03:18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: FS31 Lab Sample ID: 890-725-8 Date Collected: 05/24/21 13:38 **Matrix: Solid**

Date Received: 05/24/21 16:32

Sample Depth: - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/26/21 09:40	05/27/21 07:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/26/21 09:40	05/27/21 07:15	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130			05/26/21 09:40	05/27/21 07:15	1

Lab Sample ID: 890-725-8

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-725-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: FS31

Date Collected: 05/24/21 13:38 Date Received: 05/24/21 16:32

Sample Depth: - 4

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 03:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 03:59	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 03:59	1
Total TPH	<49.8	U	49.8	mg/Kg		05/26/21 14:55	05/27/21 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			05/26/21 14:55	05/27/21 03:59	1
o-Terphenyl	105		70 - 130			05/26/21 14:55	05/27/21 03:59	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.5		5.00	mg/Kg			05/27/21 04:50	1

Client Sample ID: SW02

Date Collected: 05/24/21 13:49

Lab Sample ID: 890-725-9

Matrix: Solid

Date Collected: 05/24/21 13:49 Date Received: 05/24/21 16:32

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
Total BTEX	<0.00403	U F2	0.00403	mg/Kg		05/26/21 11:38	05/26/21 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			05/26/21 11:38	05/26/21 15:51	
1,4-Difluorobenzene (Surr)	94		70 - 130			05/26/21 11:38	05/26/21 15:51	1
Method: 8015B NM - Diesel Ranç Analyte	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mothod: 9015P NM Diocal Pane	no Organics (D	BO) (GC)						
Analyte	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 04:20	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/26/21 14:55	05/27/21 04:20	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	05/26/21 14:55	05/27/21 04:20	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55	05/27/21 04:20 05/27/21 04:20	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 04:20 05/27/21 04:20 05/27/21 04:20	
Analyte	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 05/27/21 04:20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 Analyzed 05/27/21 04:20	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 05/27/21 04:20 Analyzed 05/27/21 04:20	Dil Fac

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Job ID: 890-725-1 SDG: TE012921047

Project/Site: ADU CTB

Client Sample ID: SW03

Client: WSP USA Inc.

Lab Sample ID: 890-725-10

Date Collected: 05/24/21 13:51 Date Received: 05/24/21 16:32 Matrix: Solid

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			05/26/21 11:38	05/26/21 16:11	1
1,4-Difluorobenzene (Surr)	86		70 - 130			05/26/21 11:38	05/26/21 16:11	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 04:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 04:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 04:41	1
Total TPH	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/26/21 14:55	05/27/21 04:41	1
o-Terphenyl	91		70 - 130			05/26/21 14:55	05/27/21 04:41	1

 Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	367		4.95	mg/Kg			05/27/21 05:00	1

Client Sample ID: SW04 Lab Sample ID: 890-725-11 Date Collected: 05/24/21 13:55 **Matrix: Solid**

Date Received: 05/24/21 16:32

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			05/26/21 11:38	05/26/21 16:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/26/21 11:38	05/26/21 16:32	1

Lab Sample ID: 890-725-11

05/27/21 05:15

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-725-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: SW04

Date Collected: 05/24/21 13:55 Date Received: 05/24/21 16:32

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 05:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 05:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 05:02	1
Total TPH	<49.9	U	49.9	mg/Kg		05/26/21 14:55	05/27/21 05:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			05/26/21 14:55	05/27/21 05:02	1
o-Terphenyl	92		70 - 130			05/26/21 14:55	05/27/21 05:02	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW05

Date Collected: 05/24/21 13:57

Lab Sample ID: 890-725-12

Matrix: Solid

5.01

mg/Kg

109

Date Collected: 05/24/21 13:57 Date Received: 05/24/21 16:32

Sample Depth: 0 - 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 16:52	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 16:52	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 16:52	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 16:52	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 16:52	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 16:52	
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 16:52	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			05/26/21 11:38	05/26/21 16:52	
	100		70 - 130			05/26/21 11:38	05/26/21 16:52	
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ranc		RO) (GC)	70 - 130			03/20/21 11:30	03/20/21 10:32	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		Unit mg/Kg	<u>D</u>			
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <50.0	Qualifier	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 05:23	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier	RL		<u>D</u>	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 05:23	Dil Fa
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 (Di Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55	Analyzed 05/27/21 05:23	Dil Fa
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D Result <50.0	Qualifier U	FL 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	Analyzed 05/27/21 05:23 05/27/21 05:23	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	ge Organics (D) Result <50.0 101 <50.0 101	Qualifier U	RL 50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	Analyzed 05/27/21 05:23 05/27/21 05:23 05/27/21 05:23 05/27/21 05:23	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (D Result <50.0 101 <50.0 101 %Recovery	Qualifier U	RL 50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	Analyzed 05/27/21 05:23 05/27/21 05:23 05/27/21 05:23 05/27/21 05:23 Analyzed	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) Total TPH Surrogate 1-Chlorooctane	ge Organics (D) Result <50.0 101 <50.0 101 <i>%Recovery</i> 102 89 comatography -	Qualifier U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	Analyzed 05/27/21 05:23 05/27/21 05:23 05/27/21 05:23 05/27/21 05:23 Analyzed 05/27/21 05:23	Dil Fac

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Lab Sample ID: 890-725-13

Client Sample Results

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-725-1
SDG: TE012921047

Client Sample ID: SW06

Date Collected: 05/24/21 13:59 Date Received: 05/24/21 16:32

Sample Depth: 0 - 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/26/21 11:38	05/26/21 17:13	1
1 1 Differenchemanne (Court)	100		70 - 130			05/26/21 11:38	05/26/21 17:13	1
		RO) (GC)	70 - 130			05/20/21 11.36	03/20/21 17.13	,
1,4-Difluorobenzene (Surr)			70 - 130			05/20/21 11.36	03/20/21 17.13	,
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		Unit mg/Kg	<u>D</u>			
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 05:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u> </u>	Prepared 05/26/21 14:55	Analyzed 05/27/21 05:44	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	Qualifier U U	RL 50.0	mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55	Analyzed 05/27/21 05:44 05/27/21 05:44	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)	ge Organics (D) Result <50.0 <50.0 <50.0	Qualifier U U U	RL 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	Analyzed 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U	RL 50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55	Analyzed 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0	Qualifier U U U	RL 50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared	Analyzed 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44 Analyzed	Dil Fac 1 1 1 1 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) Total TPH Surrogate 1-Chlorooctane	ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <80.0 <80.0 80.0	Qualifier U U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 05/26/21 14:55 Prepared 05/26/21 14:55	Analyzed 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44 05/27/21 05:44 Analyzed 05/27/21 05:44	Dil Fac

5.03

16.9

mg/Kg

Eurofins Xenco, Carlsbad

05/27/21 05:34

Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-725-1

SDG: TE012921047

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)	
890-725-1	FS24	105	95	
890-725-2	FS25	95	110	
890-725-3	FS26	100	108	
890-725-4	FS27	122	124	
890-725-5	FS28	108	90	
890-725-6	FS29	95	112	
890-725-7	FS30	93	103	
890-725-8	FS31	107	132 S1+	
890-725-9	SW02	120	94	
890-725-9 MS	SW02	99	88	
890-725-9 MSD	SW02	120	84	
890-725-10	SW03	133 S1+	86	
890-725-11	SW04	120	103	
890-725-12	SW05	113	103	
890-725-13	SW06	116	100	
LCS 880-3517/1-A	Lab Control Sample	81	116	
LCS 880-3531/1-A	Lab Control Sample	105	98	
LCSD 880-3517/2-A	Lab Control Sample Dup	84	117	
LCSD 880-3531/2-A	Lab Control Sample Dup	107	99	
MB 880-3414/5-A	Method Blank	109	114	
MB 880-3517/5-A	Method Blank	98	87	
MB 880-3531/5-A	Method Blank	107	95	

BFB = 4-Bromofluorobenzene (Surr)

 $\mathsf{DFBZ} = \mathsf{1,4-Difluorobenzene} \; (\mathsf{Surr})$

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)	
890-725-1	FS24	102	92	
890-725-2	FS25	101	90	
890-725-3	FS26	99	87	
890-725-4	FS27	96	85	
890-725-5	FS28	123	104	
890-725-6	FS29	121	97	
890-725-7	FS30	125	107	
890-725-8	FS31	118	105	
890-725-9	SW02	100	83	
890-725-10	SW03	104	91	
890-725-11	SW04	105	92	
890-725-12	SW05	102	89	
890-725-13	SW06	99	88	
LCS 880-3539/2-A	Lab Control Sample	106	87	
LCSD 880-3539/3-A	Lab Control Sample Dup	96	78	
MB 880-3539/1-A	Method Blank	93	86	

Surrogate Summary

Client: WSP USA Inc. Project/Site: ADU CTB 1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-725-1

SDG: TE012921047

Job ID: 890-725-1 SDG: TE012921047

Project/Site: ADU CTB Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3414/5-A

Matrix: Solid

Client: WSP USA Inc.

Analysis Batch: 3497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3414

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 08:45	05/26/21 11:39	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 08:45	05/26/21 11:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	 05/26/21 08:45	05/26/21 11:39	1
1,4-Difluorobenzene (Surr)	114		70 - 130	05/26/21 08:45	05/26/21 11:39	1

Lab Sample ID: MB 880-3517/5-A

Matrix: Solid

Analysis Batch: 3497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3517

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/26/21 23:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 09:40	05/26/21 23:22	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/26/21 09:40	05/26/21 23:22	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/26/21 09:40	05/26/21 23:22	1

Lab Sample ID: LCS 880-3517/1-A

Matrix: Solid

Analysis Batch: 3497

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

Prep Batch: 3517

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	
Toluene	0.100	0.09244		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.08359		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1660		mg/Kg		83	70 - 130	
o-Xylene	0.100	0.08061		mg/Kg		81	70 - 130	

LCS LCS

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

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

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

Lab Sample ID: LCSD 880-3517/2-A

Matrix: Solid

Analysis Batch: 3497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3517

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	5	35
Toluene	0.100	0.09767		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.08869		mg/Kg		89	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	4	35
o-Xylene	0.100	0.08510		mg/Kg		85	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: MB 880-3531/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 3532

Prep Type: Total/NA

Prep Batch: 3531

MB MB

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1
Toluene	<0.00200 l	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1
m-Xylene & p-Xylene	<0.00400 l	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 15:22	1
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 15:22	1
Total BTEX	<0.00400 \	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 15:22	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/26/21 11:38	05/26/21 15:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/26/21 11:38	05/26/21 15:22	1

Lab Sample ID: LCS 880-3531/1-A

Matrix: Solid

Analysis Batch: 3532

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3531

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1218		mg/Kg		122	70 - 130	
m-Xylene & p-Xylene	0.200	0.2488		mg/Kg		124	70 - 130	
o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1.4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-3531/2-A

Matrix: Solid

Analysis Batch: 3532

Client Sample	ID: La	ab Cont	rol Sar	nple Dup
		Prep	Type:	Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1049	-	mg/Kg		105	70 - 130	1	35

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

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

Lab Sample ID: LCSD 880-3531/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Prep Batch: 3531

Analysis Batch: 3532

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1170		mg/Kg		117	70 - 130	3	35
Ethylbenzene	0.100	0.1186		mg/Kg		119	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2425		mg/Kg		121	70 - 130	3	35
o-Xylene	0.100	0.1203		mg/Kg		120	70 - 130	2	35

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 107 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 890-725-9 MS

Analysis Batch: 3532

Client Sample ID: SW02 Matrix: Solid Prep Type: Total/NA

Prep Batch: 3531

Prep Batch: 3531

		Sample	Sample	Spike	MS	MS				%Rec.	
1	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ē	Benzene	<0.00202	U F1	0.100	0.07269		mg/Kg		73	70 - 130	
-	Toluene	<0.00202	U	0.100	0.09606		mg/Kg		96	70 - 130	
E	Ethylbenzene	<0.00202	U	0.100	0.09611		mg/Kg		96	70 - 130	
r	m-Xylene & p-Xylene	<0.00403	U	0.200	0.2022		mg/Kg		101	70 - 130	
(o-Xylene	<0.00202	U	0.100	0.09671		mg/Kg		97	70 - 130	

MS MS Qualifier %Recovery Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 99 88 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-725-9 MSD Client Sample ID: SW02 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3532

MSD MSD Sample Sample Spike %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00202 U F1 0.0996 0.05210 F1 mg/Kg 52 70 - 130 33 35 Toluene <0.00202 0.0996 0.07436 mg/Kg 75 70 - 130 25 35 Ethylbenzene <0.00202 U 0.0996 0.07871 mg/Kg 79 70 - 130 20 35 <0.00403 U 0.199 0.1682 70 - 130 m-Xylene & p-Xylene mg/Kg 84 18 35 0.0996 o-Xylene <0.00202 U 0.08532 mg/Kg 86 70 - 130 13 35

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

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

Matrix: Solid

Analysis Batch: 3502

Lab Sample ID: MB 880-3539/1-A

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 3539

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 05/26/21 14:55 05/26/21 22:25 Gasoline Range Organics (GRO)-C6-C10

Job ID: 890-725-1

Client: WSP USA Inc. Project/Site: ADU CTB

SDG: TE012921047

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

<50.0 U

Lab Sample ID: MB 880-3539/1-A **Matrix: Solid**

Analysis Batch: 3502

Diesel Range Organics (Over

Client Sample ID: Method Blank

05/26/21 22:25

Prep Type: Total/NA Prep Batch: 3539

Prep Batch: 3539

MB	3 MB									
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1			
<50.0	U	50.0	mg/Kg		05/26/21 14:55	05/26/21 22:25	1			

mg/Kg

C10-C28) OII Range Organics (Over C28-C36) Total TPH

Analyte

MB MB

Limits Surrogate %Recovery Qualifier 1-Chlorooctane 93 70 - 130 o-Terphenyl 86 70 - 130

Prepared Analyzed Dil Fac 05/26/21 14:55 05/26/21 22:25 05/26/21 14:55 05/26/21 22:25

05/26/21 14:55

Lab Sample ID: LCS 880-3539/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

50.0

Matrix: Solid

Analysis Batch: 3502

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	969.2		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1108		mg/Kg		111	70 - 130	

C10-C28)

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	106	70 - 130
o-Terphenyl	87	70 - 130

Lab Sample ID: LCSD 880-3539/3-A

Matrix: Solid

Analysis Batch: 3502

Client Sample ID: Lab Control Sample Du	иp
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Prep Type: Total/NA

Prep Batch: 3539

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	872.1		mg/Kg		87	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	996.4		mg/Kg		100	70 - 130	11	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 78 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3467/1-A

Matrix: Solid

Analyte

Chloride

Analysis Batch: 3542

Client Sample ID: Method Blank	
Prep Type: Soluble	

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.00 05/27/21 03:37 <5.00 U mg/Kg

Lab Sample ID: LCS 880-3467/2-A

Matrix: Solid

Analysis Batch: 3542

Analysis Batch: 3542

QC Sample Results

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 257.6 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-3467/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Soluble

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Unit RPD Limit Analyte D %Rec Limits Chloride 250 257.6 mg/Kg 103 0

Lab Sample ID: 890-725-10 MS Client Sample ID: SW03 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3542

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 367 248 633.2 108 90 - 110 mg/Kg

Lab Sample ID: 890-725-10 MSD Client Sample ID: SW03

Matrix: Solid Prep Type: Soluble Analysis Batch: 3542

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

633.0 Chloride 367 248 108 90 - 110 0 20 mg/Kg

QC Association Summary

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-725-1
SDG: TE012921047

GC VOA

Prep Batch: 3414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3414/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 3497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-1	FS24	Total/NA	Solid	8021B	3517
890-725-2	FS25	Total/NA	Solid	8021B	3517
890-725-3	FS26	Total/NA	Solid	8021B	3517
890-725-4	FS27	Total/NA	Solid	8021B	3517
890-725-5	FS28	Total/NA	Solid	8021B	3517
890-725-6	FS29	Total/NA	Solid	8021B	3517
890-725-7	FS30	Total/NA	Solid	8021B	3517
890-725-8	FS31	Total/NA	Solid	8021B	3517
MB 880-3414/5-A	Method Blank	Total/NA	Solid	8021B	3414
MB 880-3517/5-A	Method Blank	Total/NA	Solid	8021B	3517
LCS 880-3517/1-A	Lab Control Sample	Total/NA	Solid	8021B	3517
LCSD 880-3517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3517

Prep Batch: 3517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-1	FS24	Total/NA	Solid	5035	
890-725-2	FS25	Total/NA	Solid	5035	
890-725-3	FS26	Total/NA	Solid	5035	
890-725-4	FS27	Total/NA	Solid	5035	
890-725-5	FS28	Total/NA	Solid	5035	
890-725-6	FS29	Total/NA	Solid	5035	
890-725-7	FS30	Total/NA	Solid	5035	
890-725-8	FS31	Total/NA	Solid	5035	
MB 880-3517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3517/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 3531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-725-9	SW02	Total/NA	Solid	5035	<u> </u>
890-725-10	SW03	Total/NA	Solid	5035	
890-725-11	SW04	Total/NA	Solid	5035	
890-725-12	SW05	Total/NA	Solid	5035	
890-725-13	SW06	Total/NA	Solid	5035	
MB 880-3531/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3531/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3531/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-725-9 MS	SW02	Total/NA	Solid	5035	
890-725-9 MSD	SW02	Total/NA	Solid	5035	

Analysis Batch: 3532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-9	SW02	Total/NA	Solid	8021B	3531
890-725-10	SW03	Total/NA	Solid	8021B	3531
890-725-11	SW04	Total/NA	Solid	8021B	3531
890-725-12	SW05	Total/NA	Solid	8021B	3531
890-725-13	SW06	Total/NA	Solid	8021B	3531

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QC Association Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-725-1
SDG: TE012921047

GC VOA (Continued)

Analysis Batch: 3532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
MB 880-3531/5-A	Method Blank	Total/NA	Solid	8021B	3531	
LCS 880-3531/1-A	Lab Control Sample	Total/NA	Solid	8021B	3531	
LCSD 880-3531/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3531	
890-725-9 MS	SW02	Total/NA	Solid	8021B	3531	
890-725-9 MSD	SW02	Total/NA	Solid	8021B	3531	

GC Semi VOA

Analysis Batch: 3502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-1	FS24	Total/NA	Solid	8015B NM	3539
890-725-2	FS25	Total/NA	Solid	8015B NM	3539
890-725-3	FS26	Total/NA	Solid	8015B NM	3539
890-725-4	FS27	Total/NA	Solid	8015B NM	3539
890-725-5	FS28	Total/NA	Solid	8015B NM	3539
890-725-6	FS29	Total/NA	Solid	8015B NM	3539
890-725-7	FS30	Total/NA	Solid	8015B NM	3539
890-725-8	FS31	Total/NA	Solid	8015B NM	3539
890-725-9	SW02	Total/NA	Solid	8015B NM	3539
890-725-10	SW03	Total/NA	Solid	8015B NM	3539
890-725-11	SW04	Total/NA	Solid	8015B NM	3539
890-725-12	SW05	Total/NA	Solid	8015B NM	3539
890-725-13	SW06	Total/NA	Solid	8015B NM	3539
MB 880-3539/1-A	Method Blank	Total/NA	Solid	8015B NM	3539
LCS 880-3539/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3539
LCSD 880-3539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3539

Prep Batch: 3539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-725-1	FS24	Total/NA	Solid	8015NM Prep	
890-725-2	FS25	Total/NA	Solid	8015NM Prep	
890-725-3	FS26	Total/NA	Solid	8015NM Prep	
890-725-4	FS27	Total/NA	Solid	8015NM Prep	
890-725-5	FS28	Total/NA	Solid	8015NM Prep	
890-725-6	FS29	Total/NA	Solid	8015NM Prep	
890-725-7	FS30	Total/NA	Solid	8015NM Prep	
890-725-8	FS31	Total/NA	Solid	8015NM Prep	
890-725-9	SW02	Total/NA	Solid	8015NM Prep	
890-725-10	SW03	Total/NA	Solid	8015NM Prep	
890-725-11	SW04	Total/NA	Solid	8015NM Prep	
890-725-12	SW05	Total/NA	Solid	8015NM Prep	
890-725-13	SW06	Total/NA	Solid	8015NM Prep	
MB 880-3539/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3539/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-1	FS24	Soluble	Solid	DI Leach	
890-725-2	FS25	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

HPLC/IC (Continued)

Leach Batch: 3467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-3	FS26	Soluble	Solid	DI Leach	
890-725-4	FS27	Soluble	Solid	DI Leach	
890-725-5	FS28	Soluble	Solid	DI Leach	
890-725-6	FS29	Soluble	Solid	DI Leach	
890-725-7	FS30	Soluble	Solid	DI Leach	
890-725-8	FS31	Soluble	Solid	DI Leach	
890-725-9	SW02	Soluble	Solid	DI Leach	
890-725-10	SW03	Soluble	Solid	DI Leach	
890-725-11	SW04	Soluble	Solid	DI Leach	
890-725-12	SW05	Soluble	Solid	DI Leach	
890-725-13	SW06	Soluble	Solid	DI Leach	
MB 880-3467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-725-10 MS	SW03	Soluble	Solid	DI Leach	
890-725-10 MSD	SW03	Soluble	Solid	DI Leach	

Analysis Batch: 3542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-725-1	FS24	Soluble	Solid	300.0	3467
890-725-2	FS25	Soluble	Solid	300.0	3467
890-725-3	FS26	Soluble	Solid	300.0	3467
890-725-4	FS27	Soluble	Solid	300.0	3467
890-725-5	FS28	Soluble	Solid	300.0	3467
890-725-6	FS29	Soluble	Solid	300.0	3467
890-725-7	FS30	Soluble	Solid	300.0	3467
890-725-8	FS31	Soluble	Solid	300.0	3467
890-725-9	SW02	Soluble	Solid	300.0	3467
890-725-10	SW03	Soluble	Solid	300.0	3467
890-725-11	SW04	Soluble	Solid	300.0	3467
890-725-12	SW05	Soluble	Solid	300.0	3467
890-725-13	SW06	Soluble	Solid	300.0	3467
MB 880-3467/1-A	Method Blank	Soluble	Solid	300.0	3467
LCS 880-3467/2-A	Lab Control Sample	Soluble	Solid	300.0	3467
LCSD 880-3467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3467
890-725-10 MS	SW03	Soluble	Solid	300.0	3467
890-725-10 MSD	SW03	Soluble	Solid	300.0	3467

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS24

Date Collected: 05/24/21 13:20 Date Received: 05/24/21 16:32

Lab Sample ID: 890-725-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 04:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 01:13	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:06	CH	XEN MID

Client Sample ID: FS25 Lab Sample ID: 890-725-2 Date Collected: 05/24/21 13:22

Date Received: 05/24/21 16:32

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3517 05/26/21 09:40 KL XEN MID Total/NA 8021B XEN MID 3497 05/27/21 05:11 Analysis 1 KL Total/NA Prep 8015NM Prep XEN MID 3539 05/26/21 14:55 DM Total/NA 8015B NM XEN MID Analysis 3502 05/27/21 01:34 ΑJ XEN MID Soluble Leach DI Leach 3467 05/25/21 11:56 СН XEN MID Soluble Analysis 300.0 1 3542 05/27/21 04:11 CH

Client Sample ID: FS26 Lab Sample ID: 890-725-3

Date Collected: 05/24/21 13:26 **Matrix: Solid** Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 05:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 01:54	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:16	CH	XEN MID

Client Sample ID: FS27 Lab Sample ID: 890-725-4 Date Collected: 05/24/21 13:28

Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 05:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 02:15	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:21	CH	XEN MID

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Matrix: Solid

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-725-1
SDG: TE012921047

Client Sample ID: FS28

Date Collected: 05/24/21 13:30 Date Received: 05/24/21 16:32 Lab Sample ID: 890-725-5

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 06:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 02:36	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:36	CH	XEN MID

Client Sample ID: FS29

Date Collected: 05/24/21 13:34 Date Received: 05/24/21 16:32 Lab Sample ID: 890-725-6

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 06:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 02:57	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:40	CH	XEN MID

Client Sample ID: FS30

Date Collected: 05/24/21 13:36 Date Received: 05/24/21 16:32 Lab Sample ID: 890-725-7

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 06:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 03:18	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:45	CH	XEN MID

Client Sample ID: FS31

Date Collected: 05/24/21 13:38 Date Received: 05/24/21 16:32 Lab Sample ID: 890-725-8

Matrix: Solid

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3517	05/26/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	3497	05/27/21 07:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 03:59	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:50	CH	XEN MID

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-725-1
SDG: TE012921047

Client Sample ID: SW02 Date Collected: 05/24/21 13:49 Lab Sample ID: 890-725-9

Matrix: Solid

Matrix: Solid

Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 15:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 04:20	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 04:55	CH	XEN MID

Client Sample ID: SW03

Date Collected: 05/24/21 13:51

Lab Sample ID: 890-725-10

Matrix: Solid

Date Received: 05/24/21 16:32

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3531 05/26/21 11:38 MR XEN MID Total/NA 8021B XEN MID Analysis 3532 05/26/21 16:11 1 MR Total/NA Prep 8015NM Prep XEN MID 3539 05/26/21 14:55 DM Total/NA 8015B NM XEN MID Analysis 3502 05/27/21 04:41 AJ Soluble XEN MID Leach DI Leach 3467 05/25/21 11:56 СН XEN MID Soluble Analysis 300.0 1 3542 05/27/21 05:00 CH

Client Sample ID: SW04 Lab Sample ID: 890-725-11

Date Collected: 05/24/21 13:55 Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 16:32	MR	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 05:02	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:15	CH	XEN MID

Client Sample ID: SW05

Date Collected: 05/24/21 13:57

Lab Sample ID: 890-725-12

Matrix: Solid

Date Received: 05/24/21 16:32

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 16:52	MR	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 05:23	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:20	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-725-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: SW06

Lab Sample ID: 890-725-13

Matrix: Solid

Date Collected: 05/24/21 13:59 Date Received: 05/24/21 16:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 17:13	MR	XEN MID
Total/NA	Prep	8015NM Prep			3539	05/26/21 14:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3502	05/27/21 05:44	AJ	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:34	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-725-1
SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority	P	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-20-21	06-30-21
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

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Method Summary

Job ID: 890-725-1 Client: WSP USA Inc. Project/Site: ADU CTB SDG: TE012921047

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: ADU CTB Job ID: 890-725-1 SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-725-1	FS24	Solid	05/24/21 13:20	05/24/21 16:32	- 4
890-725-2	FS25	Solid	05/24/21 13:22	05/24/21 16:32	- 4.5
890-725-3	FS26	Solid	05/24/21 13:26	05/24/21 16:32	- 4
890-725-4	FS27	Solid	05/24/21 13:28	05/24/21 16:32	- 4.5
890-725-5	FS28	Solid	05/24/21 13:30	05/24/21 16:32	- 4
890-725-6	FS29	Solid	05/24/21 13:34	05/24/21 16:32	- 4
890-725-7	FS30	Solid	05/24/21 13:36	05/24/21 16:32	- 4
390-725-8	FS31	Solid	05/24/21 13:38	05/24/21 16:32	- 4
90-725-9	SW02	Solid	05/24/21 13:49	05/24/21 16:32	0 - 2
390-725-10	SW03	Solid	05/24/21 13:51	05/24/21 16:32	0 - 2
390-725-11	SW04	Solid	05/24/21 13:55	05/24/21 16:32	0 - 4.5
390-725-12	SW05	Solid	05/24/21 13:57	05/24/21 16:32	0 - 4
90-725-13	SW06	Solid	05/24/21 13:59	05/24/21 16:32	0 - 4

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Project Manager: Dan Moir			XENCO	
	Hobbs, NM (575-392-			
Bill to: (if different) Kyle Littre!	7550) Phoenix,AZ (48	1,TX (432-704-5440) E	TX (281) 240-4200 D	റ
Kyle Littrell	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody
	-620-2000)			

Ch C	W. Wh	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and 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 clien 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. Thes	Circle Method(s)	Total 200.7 / 6010	SW03	SW02	FS31	FS30	FS29	FS28	FS27	FS26	FS25	FS24	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: (4	City, State ZIP: M	L	Company Name: W	Project Manager: D	N N
	8	Signature)	ument and relinquishmen ole only for the cost of sar e of \$75.00 will be applied	Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020:	s	s	s	S	S	S	s	s	s	s	ication Matrix	Yes No N/A	Yes And N/A	Ares No	4.0/3.8	Temp Blank:	William Mather	Eddy	TE012921047	ADU CTB	(432) 236-3849	Midland, Tx 79705	3300 North A Street	WSP USA Inc., Permian office	Dan Moir	
	Two Ca	Received b	t of samples constit nples and shall not to each project and		8R	5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021	5/24/2021	Date Sampled			MMZ	17	ik: Yes No	Mather	dy	21047	CTB				ian office		Hobbs
-	W S	Received by: (Signature)	utes a valid purchase of assume any responsible a charge of \$5 for each	TCLP / SPLP 6010: 8RCRA	8RCRA 13PPM T	13:51 0-2'	13:49 0-2'	13:38 4'	13:36 4'	13:34 4'	13:30 4'	13:28 4.5'	13:26 4'	13:22 4.5'	13:20 4'	Time Depth	Total Containers:	Correction Factor: - 0	1-00-7	Thermometer ID	Wet Ice: Yes	Due Date:	Rush:	Routine	Turn Around	Email: will mat	City, S	Address	Compa	Bill to:	Houston,TX (281 Midland,TX (43 NM (575-392-7550)
	5.24	Da	order from client corr lifty for any losses of h sample submitted t		Texas 11 Al Sb	1 ×	1 ×	1 ×	1 ×	1 ×	٦ ×	×		×	×	Numb				ner	No				und	Email: will mather@wsp.com, dan.moir@wsp.com	City, State ZIP:	ši.	Company Name: XT	Bill to: (if different) Kyl	1) 240-4200 Dallas 32-704-5440) EL Pa Phoenix,AZ (480-35
	2 163	Date/Time	pany to Xenco, its a expenses incurred o Xenco, but not an	Sb As Ba Be C	As Ba Be B	×	×	×	×	×	×	×	×	×	×	BTEX (EPA	0=8	021)))						.moir@wsp.com			XTO Energy, Inc.	Kyle Littrell	TX (214) 902-0300 aso,TX (915)585-3 ₄ 5-0900) Atlanta,G
σ	4	Relinquished by:	iffiliates and subcontractors by the client if such losses alyzed. These terms will be	Cd Cr Co Cu Pb Mr	Cd Ca Cr Co C														-	890-72			_		ANALYSIS						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)
		y: (Signature) Received	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.	∕in Mo Ni Se Ag Ti II	<u>₹</u>													-		725 Chain of Custody					REQUEST	Deliverables: EDD	Reporting:Level II Le	∺			
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		Date/Time		1631 / 245.1 / 7470 / 7471 . Hg	Sn U V Zn	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the					5-37588	AFE: PA.2020.02621.EXP.01	Work Order Notes	Other:	P Usvel IV	: : :	C perfund		of)>

Chain of Custody

5	3 WW	Relinquished by: (Signature)	Notice: Signature of this doctors of service. Xenco will be liab of Xenco. A minimum charge	Total 200.7 / 6010 Circle Method(s) a							SW06	SW05	SW04	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:		City, State ZIP: Mi	Address: 33		Project Manager: Da	LABO
	Cire)	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.	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	11						s 5/	s 5/	s 5/	Matrix	Yes No N/A	Yes No N/A	Yes No		Temp Blank:	William Mather	Eddy	TE012921047	ADU CTB	(432) 236-3849	Midland, Tx 79705	3300 North A Street	WSP USA Inc., Permian office	Dan Moir	EDRATORIES
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		(Signature)	rs. It assigns standard terms and conditions are due to circumstances beyond the cue enforced unless previously negotiated.	e Pb Mg Mn Mo N≀ K Se Ag SiO2 //o Ni Se Ag TI∪			1	-									-						REQUEST	Delivera	Reportin	State	Progran		509-3334 94-1296 pa,FL (813-620-2000)
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Work Order No:

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-725-1 SDG Number: TE012921047

Login Number: 725 List Source: Eurofins Xenco, 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: 890-725-1 SDG Number: TE012921047

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 05/26/21 11:24 AM

Creator: Copeland, Tatiana

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

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-726-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

SCRAMER

Authorized for release by: 5/31/2021 12:59:31 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through



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Released to Imaging: 9/16/2021 2:55:52 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: ADU CTB

Laboratory Job ID: 890-726-1
SDG: TE012921047

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Qualifiers

GC VOA

Qualifier **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**

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)

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

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

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

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.

Project/Site: ADU CTB

Job ID: 890-726-1

SDG: TE012921047

Job ID: 890-726-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-726-1

Receipt

The samples were received on 5/24/2021 4:38 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: FS05 (890-726-1), FS06 (890-726-2), FS07 (890-726-3), FS08 (890-726-4), FS09 (890-726-5), FS11 (890-726-7), FS12 (890-726-8), FS14 (890-726-10), FS15 (890-726-11), FS16 (890-726-12), FS17 (890-726-13), FS18 (890-726-14), FS19 (890-726-15) and (890-725-A-9-D). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS08 (890-726-4), FS18 (890-726-14) and FS19 (890-726-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-3530 recovered above the upper control limit for Toluene The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FS20 (890-726-16), FS21 (890-726-17), FS22 (890-726-18), FS23 (890-726-19) and (CCV 880-3530/20).

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: FS20 (890-726-16), FS21 (890-726-17) and FS23 (890-726-19). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS20 (890-726-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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.

Project/Site: ADU CTB

Job ID: 890-726-1
SDG: TE012921047

Client Sample ID: FS05 Lab Sample ID: 890-726-1

Date Collected: 05/21/21 08:36

Date Received: 05/24/21 16:38

Matrix: Solid

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			05/26/21 11:38	05/26/21 17:33	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/26/21 11:38	05/26/21 17:33	1
Method: 8015B NM - Diesel Ranç Analyte	•	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analvzed	Dil Fac
Mathada 0045D NM - Disaal Daws	Oi (D)	BO) (OO)						
Analyte	Result	Qualifier	RL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 01:32	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 01:32	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 01:32	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 01:32 05/29/21 01:32	1
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 U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 01:32 05/29/21 01:32 05/29/21 01:32	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 05/29/21 01:32	1 11
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 Analyzed	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 Analyzed 05/29/21 01:32	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 05/29/21 01:32 Analyzed 05/29/21 01:32	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: FS06

Date Collected: 05/21/21 08:44

Lab Sample ID: 890-726-2

Matrix: Solid

Date Received: 05/24/21 16:38

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			05/26/21 11:38	05/26/21 17:53	1
1,4-Difluorobenzene (Surr)	82		70 - 130			05/26/21 11:38	05/26/21 17:53	1

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Lab Sample ID: 890-726-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS06

Date Collected: 05/21/21 08:44 Date Received: 05/24/21 16:38

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 02:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 02:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 02:58	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			05/27/21 08:52	05/29/21 02:58	1
o-Terphenyl	81		70 - 130			05/27/21 08:52	05/29/21 02:58	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		5.03	mg/Kg			05/27/21 05:44	

Client Sample ID: FS07 Lab Sample ID: 890-726-3 Matrix: Solid

Date Collected: 05/21/21 08:49 Date Received: 05/24/21 16:38

Sample Depth: - 1

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/26/21 11:38	05/26/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/26/21 11:38	05/26/21 18:14	1

70 - 130

91

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	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 03:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 03:19	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 03:19	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 03:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/27/21 08:52	05/29/21 03:19	1
o-Terphenyl	77		70 - 130			05/27/21 08:52	05/29/21 03:19	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.37	4.97	mg/Kg			05/27/21 05:49	1

Eurofins Xenco, Carlsbad

Job ID: 890-726-1 SDG: TE012921047

Project/Site: ADU CTB

Client: WSP USA Inc.

Lab Sample ID: 890-726-4

Client Sample ID: FS08 Date Collected: 05/21/21 08:51 Date Received: 05/24/21 16:38

Matrix: Solid

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			05/26/21 11:38	05/26/21 18:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/26/21 11:38	05/26/21 18:34	1
Method: 8015B NM - Diesel Ra	ange Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 03:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 03:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 03:40	1
Total TPH	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			05/27/21 08:52	05/29/21 03:40	1
o-Terphenyl	80		70 - 130			05/27/21 08:52	05/29/21 03:40	1

_ Method: 300.0 - Anions, Ion Chron	natography - Solul	ble					
Analyte	Result Quali	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.4	4.95	mg/Kg			05/27/21 05:54	1

Client Sample ID: FS09 Lab Sample ID: 890-726-5 Date Collected: 05/21/21 08:56 **Matrix: Solid**

Date Received: 05/24/21 16:38

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 18:54	-
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 18:54	•
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 18:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 18:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 18:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 18:54	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 18:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			05/26/21 11:38	05/26/21 18:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130			05/26/21 11:38	05/26/21 18:54	1

Lab Sample ID: 890-726-5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS09

Date Collected: 05/21/21 08:56 Date Received: 05/24/21 16:38

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 04:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 04:02	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 04:02	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/27/21 08:52	05/29/21 04:02	1
o-Terphenyl	82		70 - 130			05/27/21 08:52	05/29/21 04:02	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS10 Lab Sample ID: 890-726-6 Matrix: Solid

Date Collected: 05/21/21 08:58 Date Received: 05/24/21 16:38

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/26/21 11:38	05/26/21 20:45	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/26/21 11:38	05/26/21 20:45	1
Analyte	Result	Qualifier	RL 	Unit	<u>D</u>	Prepared 05/27/21 08:52	Analyzed	
Analyte Gasoline Range Organics		Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 04:23	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	05/27/21 08:52 05/27/21 08:52	05/29/21 04:23 05/29/21 04:23	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) Total TPH	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 04:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 109 <49.9 109	Qualifier U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 05/29/21 04:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 109 <49.9	Qualifier U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 04:23 05/29/21 04:23 05/29/21 04:23	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 109 <49.9 109 %Recovery	Qualifier U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 Analyzed	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 Analyzed 05/29/21 04:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 05/29/21 04:23 Analyzed 05/29/21 04:23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Job ID: 890-726-1 SDG: TE012921047

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Date Date Received: 05/24/21 16:38

Sample Depth: - 1

Client: WSP USA Inc.

Project/Site: ADU CTB

Lab Sample ID: 890-726-7	ient Sample ID: FS11
Matrix: Solid	te Collected: 05/21/21 09:03

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
Ethylbenzene	0.00276		0.00202	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
m-Xylene & p-Xylene	0.00742		0.00403	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
o-Xylene	0.00391		0.00202	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
Xylenes, Total	0.0113		0.00403	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
Total BTEX	0.0141		0.00403	mg/Kg		05/26/21 11:38	05/26/21 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/26/21 11:38	05/26/21 21:05	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/26/21 11:38	05/26/21 21:05	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 04:44	1
(GRO)-C6-C10								
Diesel Range Organics (Over	175		50.0	mg/Kg		05/27/21 08:52	05/29/21 04:44	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 04:44	1
Total TPH	175		50.0	mg/Kg		05/27/21 08:52	05/29/21 04:44	1

Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146	4.97	mg/Kg			05/27/21 13:26	1

70 - 130

70 - 130

98

85

Client Sample ID: FS12 Lab Sample ID: 890-726-8 Date Collected: 05/21/21 09:05 **Matrix: Solid**

Date Received: 05/24/21 16:38

Sample Depth: - 1

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/26/21 11:38	05/26/21 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			05/26/21 11:38	05/26/21 21:26	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/26/21 11:38	05/26/21 21:26	1

05/29/21 04:44

05/29/21 04:44

05/27/21 08:52

05/27/21 08:52

Lab Sample ID: 890-726-8

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-726-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: FS12

Date Collected: 05/21/21 09:05 Date Received: 05/24/21 16:38

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	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 05:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 05:06	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 05:06	1
Total TPH	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			05/27/21 08:52	05/29/21 05:06	1
o-Terphenyl	81		70 - 130			05/27/21 08:52	05/29/21 05:06	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.4		4.98	mg/Kg			05/27/21 13:32	1

Client Sample ID: FS13

Date Collected: 05/21/21 09:10

Lab Sample ID: 890-726-9

Matrix: Solid

Date Collected: 05/21/21 09:10 Date Received: 05/24/21 16:38

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/26/21 11:38	05/26/21 21:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			05/26/21 11:38	05/26/21 21:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/26/21 11:38	05/26/21 21:46	1
Analyte		RO) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 05:27	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 92.4	Qualifier U	50.0	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27	1
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 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27 05/29/21 05:27	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 92.4	Qualifier U	50.0	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 92.4 <50.0	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27 05/29/21 05:27	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 05/29/21 05:27	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 Analyzed	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 Analyzed 05/29/21 05:27	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 05/29/21 05:27 Analyzed 05/29/21 05:27	1

Lab Sample ID: 890-726-10

Client Sample Results

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS14

Date Collected: 05/21/21 09:13 Date Received: 05/24/21 16:38

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC) Result Qualifier D Dil Fac Analyte RL Unit Prepared Analyzed 05/26/21 22:07 Benzene <0.00200 U 0.00200 mg/Kg 05/26/21 11:38 Toluene <0.00200 U 0.00200 mg/Kg 05/26/21 11:38 05/26/21 22:07 0.00200 05/26/21 22:07 <0.00200 U mg/Kg 05/26/21 11:38 0.00401 05/26/21 11:38 05/26/21 22:07 < 0.00401 mg/Kg

Ethylbenzene m-Xylene & p-Xylene o-Xylene <0.00200 U 0.00200 05/26/21 11:38 05/26/21 22:07 mg/Kg Xylenes, Total <0.00401 U 0.00401 05/26/21 11:38 05/26/21 22:07 mg/Kg Total BTEX <0.00401 U 0.00401 05/26/21 11:38 05/26/21 22:07 mg/Kg

Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 70 - 130 05/26/21 11:38 05/26/21 22:07 4-Bromofluorobenzene (Surr) 98 1,4-Difluorobenzene (Surr) 96 70 - 130 05/26/21 11:38 05/26/21 22:07

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

Result Qualifier Analyte RL Unit D Prepared Dil Fac Analyzed <50.0 U 50.0 05/27/21 08:52 05/29/21 06:10 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/27/21 08:52 05/29/21 06:10 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/27/21 08:52 05/29/21 06:10 Total TPH <50.0 U 50.0 mg/Kg 05/27/21 08:52 05/29/21 06:10

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 1-Chlorooctane 93 70 - 130 05/27/21 08:52 05/29/21 06:10 o-Terphenyl 81 70 - 130 05/27/21 08:52 05/29/21 06:10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac mg/Kg Chloride 16.9 5.00 05/27/21 13:58

Client Sample ID: FS15

Date Collected: 05/21/21 09:16 Date Received: 05/24/21 16:38

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 0.00202 mg/Kg 05/26/21 11:38 05/26/21 22:27 Toluene <0.00202 U 0.00202 mg/Kg 05/26/21 11:38 05/26/21 22:27 Ethylbenzene <0.00202 U 0.00202 mg/Kg 05/26/21 11:38 05/26/21 22:27 0.00403 05/26/21 22:27 m-Xylene & p-Xylene <0.00403 U mg/Kg 05/26/21 11:38 o-Xylene <0.00202 U 0.00202 mg/Kg 05/26/21 11:38 05/26/21 22:27 05/26/21 22:27 Xylenes, Total <0.00403 U 0.00403 mg/Kg 05/26/21 11:38 Total BTEX <0.00403 U 0.00403 mg/Kg 05/26/21 11:38 05/26/21 22:27

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 120 70 - 130 05/26/21 11:38 05/26/21 22:27 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 85 70 - 130 05/26/21 11:38 05/26/21 22:27

Lab Sample ID: 890-726-11

Matrix: Solid

Lab Sample ID: 890-726-11

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-726-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: FS15

Date Collected: 05/21/21 09:16 Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 06:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 06:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 06:31	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 08:52	05/29/21 06:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			05/27/21 08:52	05/29/21 06:31	1
o-Terphenyl	81		70 - 130			05/27/21 08:52	05/29/21 06:31	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.9		4.99	mg/Kg			05/27/21 14:04	

Client Sample ID: FS16

Lab Sample ID: 890-726-12

Date Collected: 05/21/21 11:48

Matrix: Solid

Date Collected: 05/21/21 11:48 Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			05/26/21 11:38	05/26/21 22:47	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/26/21 11:38	05/26/21 22:47	1
Method: 8015B NM - Diesel Rang	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	ge Organics (D	RO) (GC)						
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier			<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 06:54	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U			<u>D</u>			1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 06:54	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 06:54	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)	Result <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 06:54 05/29/21 06:54	1
Method: 8015B NM - Diesel Ranç Analyte	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 06:54 05/29/21 06:54 05/29/21 06:54	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) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 05/29/21 06:54	1 1 1 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) Total TPH Surrogate	Result	Qualifier U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u> </u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 Analyzed 05/29/21 06:54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 05/29/21 06:54 Analyzed 05/29/21 06:54	Dil Fac

Eurofins Xenco, Carlsbad

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0

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12

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS17

Date Collected: 05/21/21 12:01 Date Received: 05/24/21 16:38

Sample Depth: - 2

Lab Sample ID: 890-726-13

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 11:38	05/26/21 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/26/21 11:38	05/26/21 23:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/26/21 11:38	05/26/21 23:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	mg/Kg		05/27/21 08:52	05/29/21 07:15	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 07:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 07:15	1
Total TPH	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 07:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			05/27/21 08:52	05/29/21 07:15	1
o-Terphenyl	85		70 - 130			05/27/21 08:52	05/29/21 07:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228	5.01	mg/Kg			05/27/21 14:17	1

Client Sample ID: FS18 Lab Sample ID: 890-726-14 Date Collected: 05/21/21 12:04 **Matrix: Solid**

Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/26/21 11:38	05/26/21 23:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130			05/26/21 11:38	05/26/21 23:28	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/26/21 11:38	05/26/21 23:28	1

Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-726-1

SDG: TE012921047

Lab Sample ID: 890-726-14

Matrix: Solid

Client Sample ID: FS18

Date Collected: 05/21/21 12:04 Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 07:37	1
Diesel Range Organics (Over C10-C28)	230		49.9	mg/Kg		05/27/21 08:52	05/29/21 07:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 07:37	1
Total TPH	230		49.9	mg/Kg		05/27/21 08:52	05/29/21 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/27/21 08:52	05/29/21 07:37	1
o-Terphenyl	82		70 - 130			05/27/21 08:52	05/29/21 07:37	1
Method: 300.0 - Anions, Ion Chro	omatography - 3	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			·					

Client Sample ID: FS19 Lab Sample ID: 890-726-15 Matrix: Solid

Date Collected: 05/21/21 12:06

Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 23:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 23:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 23:49	•
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 23:49	
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/26/21 11:38	05/26/21 23:49	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 23:49	
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 11:38	05/26/21 23:49	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			05/26/21 11:38	05/26/21 23:49	
1,4-Difluorobenzene (Surr)	95		70 - 130			05/26/21 11:38	05/26/21 23:49	
Method: 8015B NM - Diesel Ranç Analyte	• • •	, , ,	DI	Unit	n	Propared	Analyzod	Dil Fa
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	• • •	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 07:59	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier		mg/Kg	<u>D</u>			
Analyte Gasoline Range Organics	Result	Qualifier	50.0		<u>D</u>	05/27/21 08:52	05/29/21 07:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 07:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 59.6	Qualifier U	50.0	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 07:59 05/29/21 07:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <50.0 59.6 <50.0	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 07:59 05/29/21 07:59 05/29/21 07:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <50.0 59.6 <50.0 59.6	Qualifier U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 05/29/21 07:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 59.6 <50.0 59.6 %Recovery	Qualifier U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 Analyzed 05/29/21 07:59	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 05/29/21 07:59 Analyzed 05/29/21 07:59	Dil Fac

Job ID: 890-726-1 SDG: TE012921047

05/27/21 08:52

Prepared

D

05/29/21 08:20

Analyzed

Dil Fac

Project/Site: ADU CTB

Client Sample ID: FS20

Lab 9

Lab Sample ID: 890-726-16

Matrix: Solid

Date Received: 05/24/21 16:38 Sample Depth: - 2

Date Collected: 05/21/21 12:17

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/26/21 12:00	05/26/21 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			05/26/21 12:00	05/26/21 22:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/26/21 12:00	05/26/21 22:22	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		05/27/21 08:52	05/29/21 08:20	1
Diesel Range Organics (Over C10-C28)	80.5		50.0	mg/Kg		05/27/21 08:52	05/29/21 08:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 08:20	1
Total TPH	80.5		50.0	mg/Kg		05/27/21 08:52	05/29/21 08:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

 Chloride
 142
 4.96
 mg/Kg
 05/28/21 11:29
 1

 Client Sample ID: FS21
 Lab Sample ID: 890-726-17

RL

Unit

70 - 130

85

Result Qualifier

Date Collected: 05/21/21 12:25 Matrix: Solid

Date Received: 05/24/21 16:38

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: - 2

o-Terphenyl

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/26/21 12:00	05/26/21 22:47	
Toluene	<0.00199	U	0.00199	mg/Kg		05/26/21 12:00	05/26/21 22:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/26/21 12:00	05/26/21 22:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/26/21 12:00	05/26/21 22:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/26/21 12:00	05/26/21 22:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/26/21 12:00	05/26/21 22:47	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/26/21 12:00	05/26/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/26/21 12:00	05/26/21 22:47	1
1,4-Difluorobenzene (Surr)	70		70 - 130			05/26/21 12:00	05/26/21 22:47	1

Lab Sample ID: 890-726-17

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-726-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: FS21

Date Collected: 05/21/21 12:25 Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 08:41	1
(GRO)-C6-C10								
Diesel Range Organics (Over	96.9		49.9	mg/Kg		05/27/21 08:52	05/29/21 08:41	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 08:52	05/29/21 08:41	1
Total TPH	96.9		49.9	mg/Kg		05/27/21 08:52	05/29/21 08:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/27/21 08:52	05/29/21 08:41	1
o-Terphenyl	85		70 - 130			05/27/21 08:52	05/29/21 08:41	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.3		4.95	mg/Kg			05/28/21 11:34	

Client Sample ID: FS22

Date Collected: 05/21/21 12:31

Lab Sample ID: 890-726-18

Matrix: Solid

Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/26/21 12:00	05/26/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/26/21 12:00	05/26/21 23:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/26/21 12:00	05/26/21 23:12	1
Method: 8015B NM - Diesel Rang	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	ge Organics (D	RO) (GC)						
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier			<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	• • •	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 09:03	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U			<u>D</u>			
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 09:03	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	50.0	mg/Kg	<u> </u>	05/27/21 08:52	05/29/21 09:03	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)	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 09:03 05/29/21 09:03	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) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 09:03 05/29/21 09:03 05/29/21 09:03	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 05/29/21 09:03	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) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 Analyzed	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) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 Analyzed 05/29/21 09:03	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) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	D_	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 05/29/21 09:03 Analyzed 05/29/21 09:03	Dil Fac

Lab Sample ID: 890-726-19

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: FS23

Date Collected: 05/21/21 12:34 Date Received: 05/24/21 16:38

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:36	
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:36	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:36	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 12:00	05/26/21 23:36	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 23:36	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 12:00	05/26/21 23:36	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 12:00	05/26/21 23:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130			05/26/21 12:00	05/26/21 23:36	
1,4-Difluorobenzene (Surr)	95		70 - 130			05/26/21 12:00	05/26/21 23:36	1
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Mothod: 901EP NM Diocol Pane	no Organics (D	BO) (GC)						
Analyte	Result	RO) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared 05/27/21 08:52	Analyzed 05/29/21 09:24	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 143	Qualifier	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 09:24	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 143	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52	05/29/21 09:24	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 143 <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52	05/29/21 09:24 05/29/21 09:24	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result 143 <49.9 <49.9	Qualifier U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u> </u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 09:24 05/29/21 09:24 05/29/21 09:24	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 143 <49.9 <49.9 143	Qualifier U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52	05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 05/29/21 09:24	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 143	Qualifier U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared	05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 143	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 Analyzed 05/29/21 09:24	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result 143	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 05/27/21 08:52 Prepared 05/27/21 08:52	05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 05/29/21 09:24 Analyzed 05/29/21 09:24	Dil Fac

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate Reco
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-726-1	FS05	130	90	
890-726-2	FS06	129	82	
890-726-3	FS07	119	91	
890-726-4	FS08	132 S1+	92	
890-726-5	FS09	118	86	
890-726-6	FS10	113	102	
890-726-7	FS11	100	98	
890-726-8	FS12	122	100	
890-726-9	FS13	116	100	
890-726-10	FS14	98	96	
890-726-11	FS15	120	85	
890-726-12	FS16	129	89	
890-726-13	FS17	102	90	
890-726-14	FS18	59 S1-	85	
890-726-15	FS19	132 S1+	95	
890-726-16	FS20	136 S1+	91	
890-726-17	FS21	91	70	
890-726-18	FS22	105	97	
890-726-19	FS23	98	95	
LCS 880-3520/1-A	Lab Control Sample	108	98	
LCS 880-3520/2-A	Lab Control Sample	103	95	
LCS 880-3531/1-A	Lab Control Sample	105	98	
LCSD 880-3531/2-A	Lab Control Sample Dup	107	99	
MB 880-3520/5-A	Method Blank	70	82	
MB 880-3531/5-A	Method Blank	107	95	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_				Percent S
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-726-1	FS05	94	79	
890-726-1 MS	FS05	91	71	
890-726-1 MSD	FS05	93	74	
890-726-2	FS06	94	81	
890-726-3	FS07	91	77	
890-726-4	FS08	91	80	
890-726-5	FS09	95	82	
890-726-6	FS10	92	81	
890-726-7	FS11	98	85	
890-726-8	FS12	93	81	
890-726-9	FS13	96	84	
890-726-10	FS14	93	81	
890-726-11	FS15	92	81	
890-726-12	FS16	91	81	

Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-726-1

SDG: TE012921047

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-726-13	FS17	96	85	
390-726-14	FS18	95	82	
390-726-15	FS19	96	84	
390-726-16	FS20	96	85	
390-726-17	FS21	100	85	
390-726-18	FS22	96	85	
390-726-19	FS23	99	89	
CS 880-3559/2-A	Lab Control Sample	96	79	
CSD 880-3559/3-A	Lab Control Sample Dup	96	83	
	Method Blank	95	82	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-726-1

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3520/5-A

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: Method Blank

05/26/21 15:31

Prep Type: Total/NA

Prep Batch: 3520

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 15:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 15:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 15:31	•
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 12:00	05/26/21 15:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 12:00	05/26/21 15:31	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		05/26/21 12:00	05/26/21 15:31	1

MB MB

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70	70 - 130	05/26/21 12:00	05/26/21 15:31	1
1,4-Difluorobenzene (Surr)	82	70 - 130	05/26/21 12:00	05/26/21 15:31	1

0.00400

mg/Kg

Lab Sample ID: LCS 880-3520/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Total BTEX

Analysis Batch: 3530

analysis Daten. 3330

Prep Type: Total/NA

05/26/21 12:00

Prep Batch: 3520

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1159		mg/Kg		116	70 - 130	
Toluene	0.100	0.09439		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1 4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCS 880-3520/2-A

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3520

١		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1131		mg/Kg		113	70 - 130	
	Toluene	0.100	0.09802		mg/Kg		98	70 - 130	
	Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130	
ı	m-Xylene & p-Xylene	0.200	0.2052		mg/Kg		103	70 - 130	
	o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	

LCS LCS

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

Lab Sample ID: MB 880-3531/5-A

Matrix: Solid

Analysis Batch: 3532

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3531

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 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fa

 Benzene
 <0.00200</td>
 U
 0.00200
 mg/Kg
 05/26/21 11:38
 05/26/21 15:22

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

Lab Sample ID: MB 880-3531/5-A

Matrix: Solid

Analysis Batch: 3532

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 3531

	1110								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 15:22	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 11:38	05/26/21 15:22	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 15:22	1	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 11:38	05/26/21 15:22	1	

MB MB

MR MR

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	70 - 130	05/26/21 11:38	05/26/21 15:22	1
1.4-Difluorobenzene (Surr)	95	70 - 130	05/26/21 11:38	05/26/21 15:22	1

Lab Sample ID: LCS 880-3531/1-A

Matrix: Solid

Analysis Batch: 3532

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

Prep Batch: 3531

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	
Toluene	0.100	0.1206		mg/Kg		121	70 - 130	
Ethylbenzene	0.100	0.1218		mg/Kg		122	70 - 130	
m-Xylene & p-Xylene	0.200	0.2488		mg/Kg		124	70 - 130	
o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-3531/2-A

Matrix: Solid

Analysis Batch: 3532

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3531

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.1049 mg/Kg 105 70 - 130 35 0.100 Toluene 0.1170 70 - 130 35 mg/Kg 117 3 Ethylbenzene 0.100 0.1186 mg/Kg 70 - 130 35 119 0.200 m-Xylene & p-Xylene 0.2425 121 70 - 130 35 mg/Kg 3 o-Xylene 0.100 0.1203 mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-3559/1-A

Matrix: Solid Analysis Batch: 3614

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3559

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 00:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 00:28	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 00:28	1
Total TPH	<50.0	U	50.0	mg/Kg		05/27/21 08:52	05/29/21 00:28	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	05/27/21 08:52	05/29/21 00:28	1
o-Terphenyl	82		70 - 130	05/27/21 08:52	05/29/21 00:28	1

Lab Sample ID: LCS 880-3559/2-A

Matrix: Solid

Analysis Batch: 3614

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3559

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 781.4 78 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 865.3 mg/Kg 87 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-3559/3-A

Matrix: Solid

Analysis Batch: 3614

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3559

LCSD LCSD %Rec. RPD Spike Added Result Qualifier Analyte Unit D %Rec Limits **RPD** Limit 1000 78 20 Gasoline Range Organics 776.6 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 890.0 mg/Kg 89 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-726-1 MS

Matrix: Solid

Analysis Batch: 3614

Client Sample ID: FS05

Prep Type: Total/NA

Prep Batch: 3559

	Sample Sample	Spike	MS	MS				%Rec.
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	<49.9 U	996	831.7		mg/Kg		84	70 - 130
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9 U	996	935.2		mg/Kg		92	70 - 130
C10-C28)								

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

Lab Sample ID: 890-726-1 MS **Client Sample ID: FS05 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3614 Prep Batch: 3559

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 71 70 - 130

Lab Sample ID: 890-726-1 MSD **Client Sample ID: FS05**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 3614** Prep Batch: 3559

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 996 840.9 84 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 96 <49.9 U 977.7 mg/Kg 70 - 13020 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 93 70 - 130 1-Chlorooctane 74 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3467/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 3542

мв мв Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 05/27/21 03:37

Lab Sample ID: LCS 880-3467/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 3542

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.6 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-3467/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3542

Matrix: Solid

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 257.6 mg/Kg 103 90 - 110 20

Lab Sample ID: MB 880-3526/1-A Client Sample ID: Method Blank

Analysis Batch: 3569

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 05/27/21 11:19

mg/Kg

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Prep Type: Soluble

Job ID: 890-726-1

SDG: TE012921047

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3526/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3569

Client: WSP USA Inc.

Project/Site: ADU CTB

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 251.1 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-3526/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3569

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

Lab Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 3607

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/28/21 10:59 mg/Kg

Lab Sample ID: LCS 880-3529/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3607

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 243.8 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-3529/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3607

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.7 mg/Kg 97 90 - 110

Lab Sample ID: 890-726-15 MS Client Sample ID: FS19 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 3607

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 232 250 459.6 mg/Kg 91 90 - 110

Lab Sample ID: 890-726-15 MSD Client Sample ID: FS19

Matrix: Solid

Analysis Batch: 3607

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit %Rec Chloride 232 250 459.7 mg/Kg 91 90 - 110 20

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Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-726-1 Project/Site: ADU CTB SDG: TE012921047

GC VOA

Prep Batch: 3520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-16	FS20	Total/NA	Solid	5035	
890-726-17	FS21	Total/NA	Solid	5035	
890-726-18	FS22	Total/NA	Solid	5035	
890-726-19	FS23	Total/NA	Solid	5035	
MB 880-3520/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3520/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-3520/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 3530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-16	FS20	Total/NA	Solid	8021B	3520
890-726-17	FS21	Total/NA	Solid	8021B	3520
890-726-18	FS22	Total/NA	Solid	8021B	3520
890-726-19	FS23	Total/NA	Solid	8021B	3520
MB 880-3520/5-A	Method Blank	Total/NA	Solid	8021B	3520
LCS 880-3520/1-A	Lab Control Sample	Total/NA	Solid	8021B	3520
LCS 880-3520/2-A	Lab Control Sample	Total/NA	Solid	8021B	3520

Prep Batch: 3531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-1	FS05	Total/NA	Solid	5035	
890-726-2	FS06	Total/NA	Solid	5035	
890-726-3	FS07	Total/NA	Solid	5035	
890-726-4	FS08	Total/NA	Solid	5035	
890-726-5	FS09	Total/NA	Solid	5035	
890-726-6	FS10	Total/NA	Solid	5035	
890-726-7	FS11	Total/NA	Solid	5035	
890-726-8	FS12	Total/NA	Solid	5035	
890-726-9	FS13	Total/NA	Solid	5035	
890-726-10	FS14	Total/NA	Solid	5035	
890-726-11	FS15	Total/NA	Solid	5035	
890-726-12	FS16	Total/NA	Solid	5035	
890-726-13	FS17	Total/NA	Solid	5035	
890-726-14	FS18	Total/NA	Solid	5035	
890-726-15	FS19	Total/NA	Solid	5035	
MB 880-3531/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3531/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3531/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-1	FS05	Total/NA	Solid	8021B	3531
890-726-2	FS06	Total/NA	Solid	8021B	3531
890-726-3	FS07	Total/NA	Solid	8021B	3531
890-726-4	FS08	Total/NA	Solid	8021B	3531
890-726-5	FS09	Total/NA	Solid	8021B	3531
890-726-6	FS10	Total/NA	Solid	8021B	3531
890-726-7	FS11	Total/NA	Solid	8021B	3531
890-726-8	FS12	Total/NA	Solid	8021B	3531
890-726-9	FS13	Total/NA	Solid	8021B	3531
890-726-10	FS14	Total/NA	Solid	8021B	3531

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-726-1
SDG: TE012921047

GC VOA (Continued)

Analysis Batch: 3532 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-11	FS15	Total/NA	Solid	8021B	3531
890-726-12	FS16	Total/NA	Solid	8021B	3531
890-726-13	FS17	Total/NA	Solid	8021B	3531
890-726-14	FS18	Total/NA	Solid	8021B	3531
890-726-15	FS19	Total/NA	Solid	8021B	3531
MB 880-3531/5-A	Method Blank	Total/NA	Solid	8021B	3531
LCS 880-3531/1-A	Lab Control Sample	Total/NA	Solid	8021B	3531
LCSD 880-3531/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3531

GC Semi VOA

Prep Batch: 3559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-1	FS05	Total/NA	Solid	8015NM Prep	
890-726-2	FS06	Total/NA	Solid	8015NM Prep	
890-726-3	FS07	Total/NA	Solid	8015NM Prep	
890-726-4	FS08	Total/NA	Solid	8015NM Prep	
890-726-5	FS09	Total/NA	Solid	8015NM Prep	
890-726-6	FS10	Total/NA	Solid	8015NM Prep	
890-726-7	FS11	Total/NA	Solid	8015NM Prep	
890-726-8	FS12	Total/NA	Solid	8015NM Prep	
890-726-9	FS13	Total/NA	Solid	8015NM Prep	
890-726-10	FS14	Total/NA	Solid	8015NM Prep	
890-726-11	FS15	Total/NA	Solid	8015NM Prep	
890-726-12	FS16	Total/NA	Solid	8015NM Prep	
890-726-13	FS17	Total/NA	Solid	8015NM Prep	
890-726-14	FS18	Total/NA	Solid	8015NM Prep	
890-726-15	FS19	Total/NA	Solid	8015NM Prep	
890-726-16	FS20	Total/NA	Solid	8015NM Prep	
890-726-17	FS21	Total/NA	Solid	8015NM Prep	
890-726-18	FS22	Total/NA	Solid	8015NM Prep	
890-726-19	FS23	Total/NA	Solid	8015NM Prep	
MB 880-3559/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3559/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3559/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-726-1 MS	FS05	Total/NA	Solid	8015NM Prep	
890-726-1 MSD	FS05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-1	FS05	Total/NA	Solid	8015B NM	3559
890-726-2	FS06	Total/NA	Solid	8015B NM	3559
890-726-3	FS07	Total/NA	Solid	8015B NM	3559
890-726-4	FS08	Total/NA	Solid	8015B NM	3559
890-726-5	FS09	Total/NA	Solid	8015B NM	3559
890-726-6	FS10	Total/NA	Solid	8015B NM	3559
890-726-7	FS11	Total/NA	Solid	8015B NM	3559
890-726-8	FS12	Total/NA	Solid	8015B NM	3559
890-726-9	FS13	Total/NA	Solid	8015B NM	3559
890-726-10	FS14	Total/NA	Solid	8015B NM	3559
890-726-11	FS15	Total/NA	Solid	8015B NM	3559

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Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-726-1

SDG: TE012921047

GC Semi VOA (Continued)

Analysis Batch: 3614 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-12	FS16	Total/NA	Solid	8015B NM	3559
890-726-13	FS17	Total/NA	Solid	8015B NM	3559
890-726-14	FS18	Total/NA	Solid	8015B NM	3559
890-726-15	FS19	Total/NA	Solid	8015B NM	3559
890-726-16	FS20	Total/NA	Solid	8015B NM	3559
890-726-17	FS21	Total/NA	Solid	8015B NM	3559
890-726-18	FS22	Total/NA	Solid	8015B NM	3559
890-726-19	FS23	Total/NA	Solid	8015B NM	3559
MB 880-3559/1-A	Method Blank	Total/NA	Solid	8015B NM	3559
LCS 880-3559/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3559
LCSD 880-3559/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3559
890-726-1 MS	FS05	Total/NA	Solid	8015B NM	3559
890-726-1 MSD	FS05	Total/NA	Solid	8015B NM	3559

HPLC/IC

Leach Batch: 3467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-1	FS05	Soluble	Solid	DI Leach	
890-726-2	FS06	Soluble	Solid	DI Leach	
890-726-3	FS07	Soluble	Solid	DI Leach	
890-726-4	FS08	Soluble	Solid	DI Leach	
890-726-5	FS09	Soluble	Solid	DI Leach	
890-726-6	FS10	Soluble	Solid	DI Leach	
MB 880-3467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 3526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-7	FS11	Soluble	Solid	DI Leach	_
890-726-8	FS12	Soluble	Solid	DI Leach	
890-726-9	FS13	Soluble	Solid	DI Leach	
890-726-10	FS14	Soluble	Solid	DI Leach	
890-726-11	FS15	Soluble	Solid	DI Leach	
890-726-12	FS16	Soluble	Solid	DI Leach	
890-726-13	FS17	Soluble	Solid	DI Leach	
890-726-14	FS18	Soluble	Solid	DI Leach	
MB 880-3526/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3526/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3526/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 3529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-15	890-726-15 FS19		Solid	DI Leach	
890-726-16	FS20	Soluble	Solid	DI Leach	
890-726-17	FS21	Soluble	Solid	DI Leach	
890-726-18	FS22	Soluble	Solid	DI Leach	
890-726-19	FS23	Soluble	Solid	DI Leach	
MB 880-3529/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3529/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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Client: WSP USA Inc.

Job ID: 890-726-1

Project/Site: ADU CTB

SDG: TE012921047

HPLC/IC (Continued)

Leach Batch: 3529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
LCSD 880-3529/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach
890-726-15 MS	FS19	Soluble	Solid	DI Leach
890-726-15 MSD	FS19	Soluble	Solid	DI Leach

Analysis Batch: 3542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-1	FS05	Soluble	Solid	300.0	3467
890-726-2	FS06	Soluble	Solid	300.0	3467
890-726-3	FS07	Soluble	Solid	300.0	3467
890-726-4	FS08	Soluble	Solid	300.0	3467
890-726-5	FS09	Soluble	Solid	300.0	3467
890-726-6	FS10	Soluble	Solid	300.0	3467
MB 880-3467/1-A	Method Blank	Soluble	Solid	300.0	3467
LCS 880-3467/2-A	Lab Control Sample	Soluble	Solid	300.0	3467
LCSD 880-3467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3467

Analysis Batch: 3569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-7	FS11	Soluble	Solid	300.0	3526
890-726-8	FS12	Soluble	Solid	300.0	3526
890-726-9	FS13	Soluble	Solid	300.0	3526
890-726-10	FS14	Soluble	Solid	300.0	3526
890-726-11	FS15	Soluble	Solid	300.0	3526
890-726-12	FS16	Soluble	Solid	300.0	3526
890-726-13	FS17	Soluble	Solid	300.0	3526
890-726-14	FS18	Soluble	Solid	300.0	3526
MB 880-3526/1-A	Method Blank	Soluble	Solid	300.0	3526
LCS 880-3526/2-A	Lab Control Sample	Soluble	Solid	300.0	3526
LCSD 880-3526/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3526

Analysis Batch: 3607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-726-15	FS19	Soluble	Solid	300.0	3529
890-726-16	FS20	Soluble	Solid	300.0	3529
890-726-17	FS21	Soluble	Solid	300.0	3529
890-726-18	FS22	Soluble	Solid	300.0	3529
890-726-19	FS23	Soluble	Solid	300.0	3529
MB 880-3529/1-A	Method Blank	Soluble	Solid	300.0	3529
LCS 880-3529/2-A	Lab Control Sample	Soluble	Solid	300.0	3529
LCSD 880-3529/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3529
890-726-15 MS	FS19	Soluble	Solid	300.0	3529
890-726-15 MSD	FS19	Soluble	Solid	300.0	3529

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Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-726-1
SDG: TE012921047

Client Sample ID: FS05

Date Collected: 05/21/21 08:36 Date Received: 05/24/21 16:38 Lab Sample ID: 890-726-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 17:33	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 01:32	AM	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:39	CH	XEN MID

Client Sample ID: FS06

Date Collected: 05/21/21 08:44

Lab Sample ID: 890-726-2

Matrix: Solid

Date Received: 05/24/21 16:38

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3531 05/26/21 11:38 MR XEN MID Total/NA 8021B 3532 05/26/21 17:53 XEN MID Analysis 1 MR Total/NA Prep 8015NM Prep 05/27/21 08:52 XEN MID 3559 DM Total/NA 8015B NM XEN MID Analysis 3614 05/29/21 02:58 AMXEN MID Soluble Leach DI Leach 3467 05/25/21 11:56 СН XEN MID Soluble Analysis 300.0 1 3542 05/27/21 05:44 CH

Client Sample ID: FS07 Lab Sample ID: 890-726-3

Date Collected: 05/21/21 08:49
Date Received: 05/24/21 16:38
Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 18:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 03:19	AM	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:49	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-726-4

Matrix: Solid

Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 18:34	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 03:40	AM	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	СН	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:54	CH	XEN MID

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D: 890-726-4

Matrix: Solid

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-726-1
SDG: TE012921047

Client Sample ID: FS09

Date Collected: 05/21/21 08:56 Date Received: 05/24/21 16:38 Lab Sample ID: 890-726-5

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 18:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 04:02	AM	XEN MID
Soluble	Leach	DI Leach			3467	05/25/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	3542	05/27/21 05:59	CH	XEN MID

Client Sample ID: FS10

Date Collected: 05/21/21 08:58

Lab Sample ID: 890-726-6

Matrix: Solid

Date Received: 05/24/21 16:38

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3531 05/26/21 11:38 MR XEN MID Total/NA 8021B XEN MID 3532 05/26/21 20:45 Analysis 1 MR Total/NA Prep 8015NM Prep 05/27/21 08:52 XEN MID 3559 DM Total/NA 8015B NM XEN MID Analysis 3614 05/29/21 04:23 AM XEN MID Soluble Leach DI Leach 3467 05/25/21 11:56 СН XEN MID Soluble Analysis 300.0 1 3542 05/27/21 06:04 CH

Client Sample ID: FS11 Lab Sample ID: 890-726-7

Date Collected: 05/21/21 09:03 Matrix: Solid
Date Received: 05/24/21 16:38

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 21:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 04:44	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 13:26	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-726-8

Matrix: Solid

Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 21:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 05:06	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 13:32	CH	XEN MID

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0-726-8

Matrix: Solid

Client Sample ID: FS13

Date Received: 05/24/21 16:38

Lab Sample ID: 890-726-9 Date Collected: 05/21/21 09:10

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 21:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 05:27	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 13:52	CH	XEN MID

Client Sample ID: FS14 Lab Sample ID: 890-726-10 Date Collected: 05/21/21 09:13 **Matrix: Solid**

Date Received: 05/24/21 16:38

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3531 05/26/21 11:38 MR XEN MID Total/NA 8021B XEN MID Analysis 3532 05/26/21 22:07 MR 1 Total/NA Prep 8015NM Prep 05/27/21 08:52 XEN MID 3559 DM Total/NA 8015B NM XEN MID Analysis 3614 05/29/21 06:10 AMSoluble XEN MID Leach DI Leach 3526 05/26/21 10:56 СН XEN MID Soluble Analysis 300.0 1 3569 05/27/21 13:58 CH

Client Sample ID: FS15 Lab Sample ID: 890-726-11

Date Collected: 05/21/21 09:16 **Matrix: Solid** Date Received: 05/24/21 16:38

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 22:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 06:31	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	СН	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 14:04	CH	XEN MID

Client Sample ID: FS16 Lab Sample ID: 890-726-12 Date Collected: 05/21/21 11:48 Matrix: Solid

Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 22:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 06:54	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	СН	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 14:11	CH	XEN MID

Client Sample ID: FS17

Date Received: 05/24/21 16:38

Lab Sample ID: 890-726-13 Date Collected: 05/21/21 12:01

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 23:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 07:15	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	СН	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 14:17	CH	XEN MID

Client Sample ID: FS18 Lab Sample ID: 890-726-14

Date Collected: 05/21/21 12:04 **Matrix: Solid** Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 23:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 07:37	AM	XEN MID
Soluble	Leach	DI Leach			3526	05/26/21 10:56	CH	XEN MID
Soluble	Analysis	300.0		1	3569	05/27/21 14:23	CH	XEN MID

Client Sample ID: FS19 Lab Sample ID: 890-726-15

Date Collected: 05/21/21 12:06 **Matrix: Solid** Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3531	05/26/21 11:38	MR	XEN MID
Total/NA	Analysis	8021B		1	3532	05/26/21 23:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 07:59	AM	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 11:14	SC	XEN MID

Lab Sample ID: 890-726-16 **Client Sample ID: FS20**

Date Collected: 05/21/21 12:17 **Matrix: Solid** Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/26/21 22:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 08:20	AM	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 11:29	SC	XEN MID

Client Sample ID: FS21 Lab Sample ID: 890-726-17

Matrix: Solid

Date Collected: 05/21/21 12:25 Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/26/21 22:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 08:41	AM	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	CH	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 11:34	SC	XEN MID

Client Sample ID: FS22 Lab Sample ID: 890-726-18

Date Collected: 05/21/21 12:31 **Matrix: Solid**

Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/26/21 23:12	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 09:03	AM	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	CH	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 11:39	SC	XEN MID

Client Sample ID: FS23 Lab Sample ID: 890-726-19

Date Collected: 05/21/21 12:34 **Matrix: Solid**

Date Received: 05/24/21 16:38

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/26/21 23:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			3559	05/27/21 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3614	05/29/21 09:24	AM	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 11:43	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-726-1
SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority		rogram	Identification Number	Expiration Date	
Texas	N	NELAP T104704400-20-21 06-30-2		21 06-30-21	
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for whic	
Analysis Method	Prep Method	Matrix	Analyte		
8015B NM	8015NM Prep	Solid	Total TPH		

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Method Summary

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-726-1
SDG: TE012921047

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: ADU CTB

890-726-18

890-726-19

FS22

FS23

Job ID: 890-726-1

SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-726-1	FS05	Solid	05/21/21 08:36	05/24/21 16:38	- 1
890-726-2	FS06	Solid	05/21/21 08:44	05/24/21 16:38	- 1
890-726-3	FS07	Solid	05/21/21 08:49	05/24/21 16:38	- 1
890-726-4	FS08	Solid	05/21/21 08:51	05/24/21 16:38	- 1
390-726-5	FS09	Solid	05/21/21 08:56	05/24/21 16:38	- 1
90-726-6	FS10	Solid	05/21/21 08:58	05/24/21 16:38	- 1
90-726-7	FS11	Solid	05/21/21 09:03	05/24/21 16:38	- 1
00-726-8	FS12	Solid	05/21/21 09:05	05/24/21 16:38	- 1
0-726-9	FS13	Solid	05/21/21 09:10	05/24/21 16:38	- 1
0-726-10	FS14	Solid	05/21/21 09:13	05/24/21 16:38	- 1
)-726-11	FS15	Solid	05/21/21 09:16	05/24/21 16:38	- 2
)-726-12	FS16	Solid	05/21/21 11:48	05/24/21 16:38	- 2
)-726-13	FS17	Solid	05/21/21 12:01	05/24/21 16:38	- 2
)-726-14	FS18	Solid	05/21/21 12:04	05/24/21 16:38	- 2
0-726-15	FS19	Solid	05/21/21 12:06	05/24/21 16:38	- 2
-726-16	FS20	Solid	05/21/21 12:17	05/24/21 16:38	- 2
-726-17	FS21	Solid	05/21/21 12:25	05/24/21 16:38	- 2

Solid

Solid

05/21/21 12:31

05/21/21 12:34

05/24/21 16:38

05/24/21 16:38 - 2

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Moir Policy Pol	5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Relinguished by: (Signature)	of Xenco. A minimum charge	Notice: Signature of this doco	Circle Method(s)	Total 200.7 / 6010	FS14	FS13	FS12	FS11	FS10	FS09	FS08	FS07	FS06	FS05	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: (4	City, State ZIP: M	Address: 33		Project Manager: D:	LAB
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K Order Cool Repriver ADaPT ADaPT A Signature (Signature		M Dy	Received by	to each project and	t of samples constitu		8R(5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	Date Sampled			77	Th	(seg)	Mather	dy .	21047	СТВ				ian office		Hobbs,
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K Order Cool Reprive ADaPT ADaPT g SiO2 Na g SiO2 Na Acat		2.24	Date	sample submitted to	rder from client compa ity for any losses or e	8RCRA Sb	≥	-	-	-	H	-	-	_		-	-	Numbe	_	Co	ntai	ners					ing ^d	er@wsp.com, dan.m	ate ZIP:	ı,		if different) Kyle	2-704-5440) EL Pas Phoenix,AZ (480-355
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Work Order No:

Chain of Custody

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		ignature)	ment and relinquishment of e only for the cost of sampl of \$75.00 will be applied to	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		S	S	S	S	S	S	S	S	S	ation Matrix	Yes No N/A	Yas No N/A	Yes No		Temp Blank:	William Mather	Eddy	TE012921047	ADU CTB	(432) 236-3849	Midland, Tx 79705	3300 North A Street	WSP USA Inc., Permian office	Dan Moir	RATORIES
	or (my	Received by: (Signature)	samples constitute es and shall not ass each project and a			5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021	5/21/2021		_	5/21/2021	Date Sampled Si	Total Co	Correction Factor:	1	The last	Yes No	ther		047	B				n office		Hobbs, NA
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66	4 (8	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and 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.	Cd Ca Cr Co Cu Fe Cr Co Cu Pb Mn Mo														· · · · · · · · · · · · · · · · · · ·						ANALYSIS REQUEST						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)
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-726-1

SDG Number: TE012921047

Login Number: 726 List Source: Eurofins Xenco, 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: 890-726-1 SDG Number: TE012921047

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 05/26/21 11:25 AM

Creator: Copeland, Tatiana

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

1

Eurofins Xenco, Carlsbad

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-735-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

MEAMER

Authorized for release by: 5/31/2021 7:27:39 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: 9/16/2021 2:55:52 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: ADU CTB
Laboratory Job ID: 890-735-1
SDG: TE012921047

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QC Association Summary	22
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Definitions/Glossary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

Qualifiers

GC VOA

Qualifier Qualifier Description

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

GC Semi VOA

B Compound was found in the blank and sample.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

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Case Narrative

Client: WSP USA Inc.

Job ID: 890-735-1

Project/Site: ADU CTB

SDG: TE012921047

Job ID: 890-735-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-735-1

Receipt

The samples were received on 5/26/2021 12:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2° C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: PH02 (890-735-1), PH02A (890-735-2), PH03 (890-735-3), PH03A (890-735-4), PH04 (890-735-5), PH04A (890-735-6), PH05 (890-735-7), PH05A (890-735-8), PH06 (890-735-9), PH06A (890-735-10), PH07 (890-735-11), PH07A (890-735-12), PH08 (890-735-13) and PH08A (890-735-14).

BTEX 8021

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH04A (890-735-6), PH05A (890-735-8), PH06 (890-735-9), PH07 (890-735-11) and PH08 (890-735-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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: Manual integration was performed on the following samples: PH02 (890-735-1), PH02A (890-735-2), PH03 (890-735-3), PH03A (890-735-4), PH04 (890-735-5), PH04A (890-735-6), PH05 (890-735-7), PH05A (890-735-8), PH06 (890-735-9), PH06A (890-735-10), PH07 (890-735-11), PH07A (890-735-12), PH08 (890-735-13), PH08A (890-735-14) and (MB 880-3585/1-A). Manual integrations were performed in the Over C10-C28 hydrocarbon range and the Over C28-C36 hydrocarbon range due to false detections created by a baseline rise.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3573 and analytical batch 880-3640 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: PH02 (890-735-1), PH02A (890-735-2), PH03 (890-735-3), PH03A (890-735-4), PH04 (890-735-5) and (880-2537-A-1-A).

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

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Client Sample ID: PH02

Lab Sample ID: 890-735-1 Date Collected: 05/26/21 09:09 Matrix: Solid Date Received: 05/26/21 12:53

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/27/21 18:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/27/21 18:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/27/21 18:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/27/21 12:00	05/27/21 18:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:00	05/27/21 18:36	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/27/21 12:00	05/27/21 18:36	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/27/21 12:00	05/27/21 18:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			05/27/21 12:00	05/27/21 18:36	
1,4-Difluorobenzene (Surr)	109		70 - 130			05/27/21 12:00	05/27/21 18:36	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Ra	ange Organics (DI	RO) (GC)						
					D	<u>.</u>	Analyzed	
Gasoline Range Organics	<49.9		49.9	Unit mg/Kg	<u>D</u>	O5/27/21 14:14	05/28/21 15:56	
Gasoline Range Organics (GRO)-C6-C10		U		mg/Kg	D	05/27/21 14:14	05/28/21 15:56	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9		<u>D</u>	<u>.</u>		,
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14	05/28/21 15:56	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 75.8	U U B	49.9 49.9 49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 15:56 05/28/21 15:56 05/28/21 15:56	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U U B	49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 15:56 05/28/21 15:56	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<49.9 <49.9 75.8	U U B	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 15:56 05/28/21 15:56 05/28/21 15:56	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	<49.9 <49.9 75.8 75.8	U U B	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 05/28/21 15:56	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 75.8 75.8 %Recovery	U U B	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>B</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 <i>Prepared</i>	05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 75.8 75.8 %Recovery 93 93	U B B Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	B	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 Analyzed 05/28/21 15:56	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<49.9 <49.9 75.8 75.8 **Recovery 93 93 hromatography -	U B B Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 05/28/21 15:56 Analyzed 05/28/21 15:56	Dil Fac

Client Sample ID: PH02A Lab Sample ID: 890-735-2 Date Collected: 05/26/21 09:12 **Matrix: Solid**

Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/27/21 12:00	05/27/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			05/27/21 12:00	05/27/21 18:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/27/21 12:00	05/27/21 18:56	1

Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-735-1 SDG: TE012921047

Lab Sample ID: 890-735-2

Matrix: Solid

Sample Depth: - 4.5

Client Sample ID: PH02A

Date Collected: 05/26/21 09:12

Date Received: 05/26/21 12:53

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 17:00	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 17:00	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 17:00	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 17:00	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130			05/27/21 14:14	05/28/21 17:00	-
o-Terphenyl	90		70 - 130			05/27/21 14:14	05/28/21 17:00	:
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		4.96	mg/Kg			05/30/21 11:10	

Client Sample ID: PH03 Lab Sample ID: 890-735-3

Date Collected: 05/26/21 09:27 Matrix: Solid

Date Received: 05/26/21 12:53

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/27/21 12:00	05/27/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/27/21 12:00	05/27/21 19:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/27/21 12:00	05/27/21 19:16	1
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 05/07/04 4444	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 14:14	Analyzed 05/28/21 17:21	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21 05/28/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U U	49.8	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21 05/28/21 17:21	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 05/28/21 17:21	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	<u> </u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 <i>Prepared</i>	05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 Analyzed 05/28/21 17:21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D_	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 05/28/21 17:21 Analyzed 05/28/21 17:21	Dil Face 1 Dil Face 1 Dil Face 1 Dil Face

Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

Lab Sample ID: 890-735-4

Matrix: Solid

Client Sample ID: PH03A Date Collected: 05/26/21 09:31

Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/27/21 12:00	05/27/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/27/21 12:00	05/27/21 19:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/27/21 12:00	05/27/21 19:37	1
Method: 8015B NM - Diesel Rang	• • •	, , ,	DI.	Unit	Б	Dronovod	Analyzad	Dil Eco
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	• • •	Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 05/27/21 14:14	Analyzed 05/28/21 17:43	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U			<u>D</u>	<u>·</u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 17:43 05/28/21 17:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 17:43 05/28/21 17:43 05/28/21 17:43	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 17:43 05/28/21 17:43	Dil Fac 1 1 1 1
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 U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 17:43 05/28/21 17:43 05/28/21 17:43	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 17:43 05/28/21 17:43 05/28/21 17:43 05/28/21 17:43	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 <i>Prepared</i>	05/28/21 17:43 05/28/21 17:43 05/28/21 17:43 05/28/21 17:43 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u> </u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 17:43 05/28/21 17:43 05/28/21 17:43 05/28/21 17:43 Analyzed 05/28/21 17:43	Dil Fac 1 1 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: PH04 Lab Sample ID: 890-735-5 **Matrix: Solid**

5.00

mg/Kg

Date Collected: 05/26/21 09:42

254

Date Received: 05/26/21 12:53 Sample Depth: - 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/27/21 12:30	05/27/21 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/27/21 12:30	05/27/21 16:15	1
1,4-Difluorobenzene (Surr)	121		70 - 130			05/27/21 12:30	05/27/21 16:15	1

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05/30/21 11:23

Lab Sample ID: 890-735-5

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-735-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: PH04

Date Collected: 05/26/21 09:42 Date Received: 05/26/21 12:53

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 18:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 18:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 18:04	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			05/27/21 14:14	05/28/21 18:04	1
o-Terphenyl	85		70 - 130			05/27/21 14:14	05/28/21 18:04	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		5.00	mg/Kg			05/30/21 11:29	

Client Sample ID: PH04A

Date Collected: 05/26/21 09:45

Lab Sample ID: 890-735-6

Matrix: Solid

Date Collected: 05/26/21 09:45 Date Received: 05/26/21 12:53

Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/27/21 12:30	05/27/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/27/21 12:30	05/27/21 16:35	1
1,4-Difluorobenzene (Surr)	120		70 - 130			05/27/21 12:30	05/27/21 16:35	1
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 14:14	Analyzed 05/28/21 18:26	
Analyte	Result	Qualifier U		mg/Kg	<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9		<u>D</u>	05/27/21 14:14	05/28/21 18:26	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14	05/28/21 18:26	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 18:26 05/28/21 18:26	1
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 U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 18:26 05/28/21 18:26 05/28/21 18:26	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 05/28/21 18:26	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 <i>Prepared</i>	05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U U Qualifier Soluble	49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg	=	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14 05/27/21 14:14	05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 Analyzed 05/28/21 18:26 05/28/21 18:26	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 05/28/21 18:26 Analyzed 05/28/21 18:26	Dil Fac Dil Fac Dil Fac Dil Fac

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Lab Sample ID: 890-735-7

Client Sample Results

Client: WSP USA Inc. Job ID: 890-735-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: PH05

Date Collected: 05/26/21 09:58 Date Received: 05/26/21 12:53

Sample Depth: - 1

Method: 8021B - Volatile Organ	ic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/27/21 12:30	05/27/21 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/27/21 12:30	05/27/21 16:56	1
1,4-Difluorobenzene (Surr)	120		70 - 130			05/27/21 12:30	05/27/21 16:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 18:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 18:47	1
Total TPH	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			05/27/21 14:14	05/28/21 18:47	1
o-Terphenyl	91		70 - 130			05/27/21 14:14	05/28/21 18:47	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.9		4.96	mg/Kg			05/28/21 15:09	1

Client Sample ID: PH05A Date Collected: 05/26/21 10:02 Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00211		0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/27/21 12:30	05/27/21 17:17	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130			05/27/21 12:30	05/27/21 17:17	1

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Lab Sample ID: 890-735-8

Matrix: Solid

Page 9 of 38 5/31/2021 Released to Imaging: 9/16/2021 2:55:52 PM

Lab Sample ID: 890-735-8

Client Sample Results

Client: WSP USA Inc. Job ID: 890-735-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: PH05A

Date Collected: 05/26/21 10:02 Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 19:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 19:08	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 19:08	1
Total TPH	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			05/27/21 14:14	05/28/21 19:08	1
o-Terphenyl	89		70 - 130			05/27/21 14:14	05/28/21 19:08	1
— Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.3		5.03	mg/Kg			05/28/21 15:23	1

Client Sample ID: PH06 Lab Sample ID: 890-735-9 Matrix: Solid

Date Collected: 05/26/21 10:13 Date Received: 05/26/21 12:53

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			05/27/21 12:30	05/27/21 17:37	1
1,4-Difluorobenzene (Surr)	128		70 - 130			05/27/21 12:30	05/27/21 17:37	1
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
	•	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 14:14	Analyzed 05/28/21 19:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30	1
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	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30 05/28/21 19:30	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30	1
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 U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30 05/28/21 19:30	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 05/28/21 19:30	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared	05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 Analyzed	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 Analyzed 05/28/21 19:30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 05/28/21 19:30 Analyzed 05/28/21 19:30	1 1 1 1 1 1 1 Dil Fac

Job ID: 890-735-1 SDG: TE012921047

Project/Site: ADU CTB

Client Sample ID: PH06A

Lab Sample ID: 890-735-10

Date Collected: 05/26/21 10:17 Date Received: 05/26/21 12:53 Matrix: Solid

Sample Depth: - 4.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/27/21 12:30	05/27/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/27/21 12:30	05/27/21 17:58	1
1,4-Difluorobenzene (Surr)	117		70 - 130			05/27/21 12:30	05/27/21 17:58	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		05/27/21 14:14	05/28/21 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 19:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 19:51	1
Total TPH	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			05/27/21 14:14	05/28/21 19:51	1
o-Terphenyl	88		70 - 130			05/27/21 14:14	05/28/21 19:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	28.8		5.01	mg/Kg			05/28/21 16:13	1

Client Sample ID: PH07

Date Collected: 05/26/21 10:27

Lab Sample ID: 890-735-11

Matrix: Solid

Date Received: 05/26/21 12:53

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/27/21 12:30	05/27/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/27/21 12:30	05/27/21 18:19	1
1,4-Difluorobenzene (Surr)	117		70 - 130			05/27/21 12:30	05/27/21 18:19	1

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

Lab Sample ID: 890-735-11

Client Sample ID: PH07

Date Collected: 05/26/21 10:27 Date Received: 05/26/21 12:53

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 20:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 20:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 20:33	1
Total TPH	<49.8	U	49.8	mg/Kg		05/27/21 14:14	05/28/21 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/27/21 14:14	05/28/21 20:33	1
o-Terphenyl	90		70 - 130			05/27/21 14:14	05/28/21 20:33	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.98	mg/Kg			05/28/21 16:17	

Client Sample ID: PH07A

Date Collected: 05/26/21 10:31

Lab Sample ID: 890-735-12

Matrix: Solid

Date Collected: 05/26/21 10:31 Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/27/21 12:30	05/27/21 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			05/27/21 12:30	05/27/21 18:40	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130			05/27/21 12:30	05/27/21 18:40	1
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Made at 0045D NM Discut Days	0	DO) (OO)						
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 05/27/21 14:14	Analyzed 05/28/21 20:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14	05/28/21 20:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	05/27/21 14:14	05/28/21 20:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14	05/28/21 20:54 05/28/21 20:54	1
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 U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 20:54 05/28/21 20:54 05/28/21 20:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14	05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 05/28/21 20:54	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared	05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 Analyzed	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 Analyzed 05/28/21 20:54	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 05/27/21 14:14 Prepared 05/27/21 14:14	05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 05/28/21 20:54 Analyzed 05/28/21 20:54	1 1 1 1 1 Dil Fac

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Job ID: 890-735-1 SDG: TE012921047

05/27/21 14:14

05/28/21 21:16

Matrix: Solid

Client: WSP USA Inc. Project/Site: ADU CTB

Client Sample ID: PH08 Lab Sample ID: 890-735-13 Date Collected: 05/26/21 10:41 Matrix: Solid

Date Received: 05/26/21 12:53

Sample Depth: - 1

	Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/27/21 12:30	05/27/21 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			05/27/21 12:30	05/27/21 19:00	1
1,4-Difluorobenzene (Surr)	183	S1+	70 - 130			05/27/21 12:30	05/27/21 19:00	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:16	1
	110.0	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:16	
OII Range Organics (Over C28-C36)	<49.9			J J			03/20/21 21.10	1
OII Range Organics (Over C28-C36) Total TPH	<49.9		49.9	mg/Kg		05/27/21 14:14	05/28/21 21:16	1 1
		U	49.9			05/27/21 14:14 Prepared		1 1 Dil Fac

Method: 300.0 - Anions, Ion Chron	natography - So	oluble						
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.73		5.00	mg/Kg			05/28/21 16:27	1

70 - 130

92

Client Sample ID: PH08A Lab Sample ID: 890-735-14

Date Collected: 05/26/21 10:45 Date Received: 05/26/21 12:53

Sample Depth: - 4.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00269		0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/27/21 12:30	05/27/21 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/27/21 12:30	05/27/21 19:21	1
1,4-Difluorobenzene (Surr)	123		70 - 130			05/27/21 12:30	05/27/21 19:21	1

Lab Sample ID: 890-735-14

Client Sample Results

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1
SDG: TE012921047

Client Sample ID: PH08A

Date Collected: 05/26/21 10:45 Date Received: 05/26/21 12:53

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:37	1
Total TPH	<49.9	U	49.9	mg/Kg		05/27/21 14:14	05/28/21 21:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			05/27/21 14:14	05/28/21 21:37	1
o-Terphenyl	88		70 - 130			05/27/21 14:14	05/28/21 21:37	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.8		5.03	mg/Kg			05/28/21 16:32	

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Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-735-1	PH02	129	109	
890-735-2	PH02A	114	103	
890-735-3	PH03	111	98	
890-735-4	PH03A	106	96	
890-735-5	PH04	96	121	
890-735-5 MS	PH04	92	126	
890-735-5 MSD	PH04	82	100	
890-735-6	PH04A	106	120	
890-735-7	PH05	100	120	
890-735-8	PH05A	108	132 S1+	
890-735-9	PH06	114	128	
890-735-10	PH06A	100	117	
890-735-11	PH07	107	117	
890-735-12	PH07A	98	132 S1+	
890-735-13	PH08	139 S1+	183 S1+	
890-735-14	PH08A	101	123	
LCS 880-3541/1-A	Lab Control Sample	112	104	
LCS 880-3570/1-A	Lab Control Sample	83	113	
LCSD 880-3541/2-A	Lab Control Sample Dup	113	104	
LCSD 880-3570/2-A	Lab Control Sample Dup	90	122	
MB 880-3541/5-A	Method Blank	87	96	
MB 880-3570/5-A	Method Blank	100	97	

BFB = 4-Bromofluorobenzene (Surr)

 $\mathsf{DFBZ} = \mathsf{1,4-Difluorobenzene} \; (\mathsf{Surr})$

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)	
890-735-1	PH02	93	93	
890-735-1 MS	PH02	91	78	
890-735-1 MSD	PH02	85	75	
890-735-2	PH02A	96	90	
890-735-3	PH03	117	109	
890-735-4	PH03A	105	100	
890-735-5	PH04	88	85	
890-735-6	PH04A	95	90	
890-735-7	PH05	94	91	
890-735-8	PH05A	92	89	
890-735-9	PH06	105	103	
890-735-10	PH06A	93	88	
390-735-11	PH07	97	90	
890-735-12	PH07A	94	92	
390-735-13	PH08	95	92	
390-735-14	PH08A	93	88	
LCS 880-3585/3-A	Lab Control Sample	96	86	

Surrogate Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recove	ry (Acceptance Limits
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
MB 880-3585/1-A	Method Blank	96	91		
Surrogate Legend					
1CO = 1-Chlorooctane					
OTPH = o-Terphenyl					

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Client: WSP USA Inc. Job ID: 890-735-1 SDG: TE012921047 Project/Site: ADU CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3541/5-A

Matrix: Solid

Analysis Batch: 3558

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3541

1

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/26/21 16:00	05/27/21 11:26	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/21 16:00	05/27/21 11:26	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/21 16:00	05/27/21 11:26	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/26/21 16:00	05/27/21 11:26	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/26/21 16:00	05/27/21 11:26	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/26/21 16:00	05/27/21 11:26	1

Lab Sample ID: LCS 880-3541/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 3558

Prep Type: Total/NA

Prep Batch: 3541

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1094		mg/Kg		109	70 - 130	
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2293		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1 4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-3541/2-A

Matrix: Solid

Analysis Batch: 3558

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3541

	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1083	mg/Kg		108	70 - 130	1	35
Toluene	0.100	0.1039	mg/Kg		104	70 - 130	0	35
Ethylbenzene	0.100	0.1087	mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2353	mg/Kg		118	70 - 130	3	35
o-Xylene	0.100	0.1177	mg/Kg		118	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 _ 130
1.4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: MB 880-3570/5-A

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3570

Analyte Result Qualifier Unit Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 05/27/21 11:00 05/27/21 15:46

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Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-735-1 SDG: TE012921047

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

Lab Sample ID: MB 880-3570/5-A

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3570

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/21 11:00	05/27/21 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/27/21 11:00	05/27/21 15:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/27/21 11:00	05/27/21 15:46	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/27/21 11:00	05/27/21 15:46	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05	5/27/21 11:00	05/27/21 15:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05	5/27/21 11:00	05/27/21 15:46	1

Lab Sample ID: LCS 880-3570/1-A

Matrix: Solid

Analysis Batch: 3571

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

Prep Batch: 3570

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09509		mg/Kg		95	70 - 130	
Toluene	0.100	0.09670		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09177		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08735		mg/Kg		87	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-3570/2-A

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: Lab Control Sample Dup
--

Prep Type: Total/NA Prep Batch: 3570

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.1037 mg/Kg 104 70 - 130 9 35 0.100 Toluene 0.1067 107 70 - 130 35 mg/Kg 10 0.100 0.09644 mg/Kg 96 70 - 130 35 Ethylbenzene 5 0.200 97 m-Xylene & p-Xylene 0.1950 mg/Kg 70 - 130 35 o-Xylene 0.100 0.09500 mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: 890-735-5 MS

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: PH04 Prep Type: Total/NA

Prep Batch: 3570

١		Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00202	U	0.100	0.1017		mg/Kg		100	70 - 130	
	Toluene	<0.00202	U	0.100	0.09770		mg/Kg		97	70 - 130	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-735-1
SDG: TE012921047

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

Lab Sample ID: 890-735-5 MS Matrix: Solid

Analysis Batch: 3571

Client Sample ID: PH04
Prep Type: Total/NA

Prep Batch: 3570

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.100	0.08887		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1802		mg/Kg		90	70 - 130	
o-Xylene	<0.00202	U	0.100	0.08611		mg/Kg		86	70 - 130	

MS MS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1,4-Difluorobenzene (Surr)	126	70 - 130

Lab Sample ID: 890-735-5 MSD

Matrix: Solid

Analysis Batch: 3571

Client Sample ID: PH04
Prep Type: Total/NA

Prep Batch: 3570

-	Sample	Sample	Spike	MSD	MSD				%Rec.	-	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.08565		mg/Kg		85	70 - 130	17	35
Toluene	<0.00202	U	0.0990	0.08809		mg/Kg		89	70 - 130	10	35
Ethylbenzene	<0.00202	U	0.0990	0.08162		mg/Kg		82	70 - 130	9	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1651		mg/Kg		83	70 - 130	9	35
o-Xylene	<0.00202	U	0.0990	0.08118		mg/Kg		82	70 - 130	6	35

MSD MSD

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	82	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

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

Lab Sample ID: MB 880-3585/1-A

Matrix: Solid

Analysis Batch: 3616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3585

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 14:51	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/27/21 14:14	05/28/21 14:51	1
C10-C28)								
Oll Range Organics (Over C28-C36)	107.7		50.0	mg/Kg		05/27/21 14:14	05/28/21 14:51	1
Total TPH	107.7		50.0	mg/Kg		05/27/21 14:14	05/28/21 14:51	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130		05/27/21 14:14	05/28/21 14:51	1
o-Terphenyl	91		70 - 130	C	05/27/21 14:14	05/28/21 14:51	1

Lab Sample ID: LCS 880-3585/3-A

Matrix: Solid

Analysis Batch: 3616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3585

 Analyte
 Added Gasoline Range Organics
 Result 1000
 Result 844.3
 Unit mg/Kg
 D
 %Rec MRec Limits

(GRO)-C6-C10

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6

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12

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

Lab Sample ID: LCS 880-3585/3-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 3616** Prep Batch: 3585 LCS LCS

Spike %Rec. Added Result Qualifier Unit %Rec Limits Analyte D 1000 892 1 mg/Kg 89 70 - 130 Diesel Range Organics (Over

C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 130 o-Terphenyl 86 70 - 130

Lab Sample ID: 890-735-1 MS **Client Sample ID: PH02 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3616 Prep Batch: 3585 MS MS %Rec. Spike

Sample Sample Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits <49.9 U 996 87 Gasoline Range Organics 879.2 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 895.8 mg/Kg 90 70 - 130 C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 1-Chlorooctane 91 70 - 130 78 70 - 130 o-Terphenyl

Lab Sample ID: 890-735-1 MSD **Client Sample ID: PH02 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 3616

Prep Batch: 3585 Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U 996 819.6 mg/Kg 81 70 - 1307 20 (GRO)-C6-C10 <49.9 U 996 824.1 83 70 - 130 20 Diesel Range Organics (Over mg/Kg C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 85 70 - 130 o-Terphenyl 75 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3587/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3608

MB MB Analyte Result Qualifier RΙ Unit Dil Fac D Prepared Analyzed 5.00 <5.00 05/28/21 13:46 Chloride U mg/Kg

Lab Sample ID: LCS 880-3587/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3608

LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 244.0 mg/Kg 98 90 - 110

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Lab Sample ID: LCSD 880-3587/3-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analysis Batch: 3608

Analysis Batch: 3608

Analysis Batch: 3608

Analysis Batch: 3640

Analysis Batch: 3640

Analysis Batch: 3640

Lab Sample ID: 890-735-7 MS

Lab Sample ID: 890-735-7 MSD

Lab Sample ID: MB 880-3573/1-A

Lab Sample ID: LCS 880-3573/2-A

Lab Sample ID: LCSD 880-3573/3-A

Method: 300.0 - Anions, Ion Chromatography

Prep Type: Soluble

RPD

Prep Type: Soluble

Client Sample ID: PH05

Client Sample ID: PH05

Prep Type: Soluble

RPD

Client Sample ID: Lab Control Sample Dup

%Rec.

Limits

90 - 110

Client Sample ID: Lab Control Sample Dup

Client: WSP USA Inc. Job ID: 890-735-1 Project/Site: ADU CTB SDG: TE012921047

LCSD LCSD

244.1

MS MS

MSD MSD

LCS LCS

LCSD LCSD

Qualifier

Qualifier

Result

252.2

Result

251.9

Qualifier

Qualifier

Unit

mg/Kg

Result

333.6

Result

333.6

RL

5.00

Result Qualifier

Unit

Unit

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D

mg/Kg

mg/Kg

D

D

%Rec

%Rec

%Rec

Prepared

%Rec

%Rec

101

101

101

101

98

Spike

Added

Sample Sample

Sample Sample

81.9

Result Qualifier

мв мв

<5.00

Result Qualifier

81.9

Result Qualifier

250

Spike

Added

248

Spike

Added

248

Spike

Added

250

Spike

Added

250

RPD

Limit

20

Client Sample ID: Method Blank **Prep Type: Soluble** Dil Fac Analyzed 05/29/21 17:39 **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Prep Type: Soluble

RPD

RPD

Limit

20

RPD

Limit

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Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1
SDG: TE012921047

GC VOA

Prep Batch: 3541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-1	PH02	Total/NA	Solid	5035	
890-735-2	PH02A	Total/NA	Solid	5035	
890-735-3	PH03	Total/NA	Solid	5035	
890-735-4	PH03A	Total/NA	Solid	5035	
MB 880-3541/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3541/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3541/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-1	PH02	Total/NA	Solid	8021B	3541
890-735-2	PH02A	Total/NA	Solid	8021B	3541
890-735-3	PH03	Total/NA	Solid	8021B	3541
890-735-4	PH03A	Total/NA	Solid	8021B	3541
MB 880-3541/5-A	Method Blank	Total/NA	Solid	8021B	3541
LCS 880-3541/1-A	Lab Control Sample	Total/NA	Solid	8021B	3541
LCSD 880-3541/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3541

Prep Batch: 3570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-5	PH04	Total/NA	Solid	5035	
890-735-6	PH04A	Total/NA	Solid	5035	
890-735-7	PH05	Total/NA	Solid	5035	
890-735-8	PH05A	Total/NA	Solid	5035	
890-735-9	PH06	Total/NA	Solid	5035	
890-735-10	PH06A	Total/NA	Solid	5035	
890-735-11	PH07	Total/NA	Solid	5035	
890-735-12	PH07A	Total/NA	Solid	5035	
890-735-13	PH08	Total/NA	Solid	5035	
890-735-14	PH08A	Total/NA	Solid	5035	
MB 880-3570/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3570/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3570/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-735-5 MS	PH04	Total/NA	Solid	5035	
890-735-5 MSD	PH04	Total/NA	Solid	5035	

Analysis Batch: 3571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-5	PH04	Total/NA	Solid	8021B	3570
890-735-6	PH04A	Total/NA	Solid	8021B	3570
890-735-7	PH05	Total/NA	Solid	8021B	3570
890-735-8	PH05A	Total/NA	Solid	8021B	3570
890-735-9	PH06	Total/NA	Solid	8021B	3570
890-735-10	PH06A	Total/NA	Solid	8021B	3570
890-735-11	PH07	Total/NA	Solid	8021B	3570
890-735-12	PH07A	Total/NA	Solid	8021B	3570
890-735-13	PH08	Total/NA	Solid	8021B	3570
890-735-14	PH08A	Total/NA	Solid	8021B	3570
MB 880-3570/5-A	Method Blank	Total/NA	Solid	8021B	3570
LCS 880-3570/1-A	Lab Control Sample	Total/NA	Solid	8021B	3570
LCSD 880-3570/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3570

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Client: WSP USA Inc.

Job ID: 890-735-1

Project/Site: ADU CTB

SDG: TE012921047

GC VOA (Continued)

Analysis Batch: 3571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-5 MS	PH04	Total/NA	Solid	8021B	3570
890-735-5 MSD	PH04	Total/NA	Solid	8021B	3570

GC Semi VOA

Prep Batch: 3585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-1	PH02	Total/NA	Solid	8015NM Prep	
890-735-2	PH02A	Total/NA	Solid	8015NM Prep	
890-735-3	PH03	Total/NA	Solid	8015NM Prep	
890-735-4	PH03A	Total/NA	Solid	8015NM Prep	
890-735-5	PH04	Total/NA	Solid	8015NM Prep	
890-735-6	PH04A	Total/NA	Solid	8015NM Prep	
890-735-7	PH05	Total/NA	Solid	8015NM Prep	
890-735-8	PH05A	Total/NA	Solid	8015NM Prep	
890-735-9	PH06	Total/NA	Solid	8015NM Prep	
890-735-10	PH06A	Total/NA	Solid	8015NM Prep	
890-735-11	PH07	Total/NA	Solid	8015NM Prep	
890-735-12	PH07A	Total/NA	Solid	8015NM Prep	
890-735-13	PH08	Total/NA	Solid	8015NM Prep	
890-735-14	PH08A	Total/NA	Solid	8015NM Prep	
MB 880-3585/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3585/3-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
890-735-1 MS	PH02	Total/NA	Solid	8015NM Prep	
890-735-1 MSD	PH02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-1	PH02	Total/NA	Solid	8015B NM	3585
890-735-2	PH02A	Total/NA	Solid	8015B NM	3585
890-735-3	PH03	Total/NA	Solid	8015B NM	3585
890-735-4	PH03A	Total/NA	Solid	8015B NM	3585
890-735-5	PH04	Total/NA	Solid	8015B NM	3585
890-735-6	PH04A	Total/NA	Solid	8015B NM	3585
890-735-7	PH05	Total/NA	Solid	8015B NM	3585
890-735-8	PH05A	Total/NA	Solid	8015B NM	3585
890-735-9	PH06	Total/NA	Solid	8015B NM	3585
890-735-10	PH06A	Total/NA	Solid	8015B NM	3585
890-735-11	PH07	Total/NA	Solid	8015B NM	3585
890-735-12	PH07A	Total/NA	Solid	8015B NM	3585
890-735-13	PH08	Total/NA	Solid	8015B NM	3585
890-735-14	PH08A	Total/NA	Solid	8015B NM	3585
MB 880-3585/1-A	Method Blank	Total/NA	Solid	8015B NM	3585
LCS 880-3585/3-A	Lab Control Sample	Total/NA	Solid	8015B NM	3585
890-735-1 MS	PH02	Total/NA	Solid	8015B NM	3585
890-735-1 MSD	PH02	Total/NA	Solid	8015B NM	3585

HPLC/IC

Leach Batch: 3573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-1	PH02	Soluble	Solid	DI Leach	

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Client: WSP USA Inc.

Job ID: 890-735-1

Project/Site: ADU CTB

SDG: TE012921047

HPLC/IC (Continued)

Leach Batch: 3573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-2	PH02A	Soluble	Solid	DI Leach	
890-735-3	PH03	Soluble	Solid	DI Leach	
890-735-4	PH03A	Soluble	Solid	DI Leach	
890-735-5	PH04	Soluble	Solid	DI Leach	
MB 880-3573/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3573/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3573/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 3587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-6	PH04A	Soluble	Solid	DI Leach	
890-735-7	PH05	Soluble	Solid	DI Leach	
890-735-8	PH05A	Soluble	Solid	DI Leach	
890-735-9	PH06	Soluble	Solid	DI Leach	
890-735-10	PH06A	Soluble	Solid	DI Leach	
890-735-11	PH07	Soluble	Solid	DI Leach	
890-735-12	PH07A	Soluble	Solid	DI Leach	
890-735-13	PH08	Soluble	Solid	DI Leach	
890-735-14	PH08A	Soluble	Solid	DI Leach	
MB 880-3587/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3587/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3587/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-735-7 MS	PH05	Soluble	Solid	DI Leach	
890-735-7 MSD	PH05	Soluble	Solid	DI Leach	

Analysis Batch: 3608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-6	PH04A	Soluble	Solid	300.0	3587
890-735-7	PH05	Soluble	Solid	300.0	3587
890-735-8	PH05A	Soluble	Solid	300.0	3587
890-735-9	PH06	Soluble	Solid	300.0	3587
890-735-10	PH06A	Soluble	Solid	300.0	3587
890-735-11	PH07	Soluble	Solid	300.0	3587
890-735-12	PH07A	Soluble	Solid	300.0	3587
890-735-13	PH08	Soluble	Solid	300.0	3587
890-735-14	PH08A	Soluble	Solid	300.0	3587
MB 880-3587/1-A	Method Blank	Soluble	Solid	300.0	3587
LCS 880-3587/2-A	Lab Control Sample	Soluble	Solid	300.0	3587
LCSD 880-3587/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3587
890-735-7 MS	PH05	Soluble	Solid	300.0	3587
890-735-7 MSD	PH05	Soluble	Solid	300.0	3587

Analysis Batch: 3640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-735-1	PH02	Soluble	Solid	300.0	3573
890-735-2	PH02A	Soluble	Solid	300.0	3573
890-735-3	PH03	Soluble	Solid	300.0	3573
890-735-4	PH03A	Soluble	Solid	300.0	3573
890-735-5	PH04	Soluble	Solid	300.0	3573
MB 880-3573/1-A	Method Blank	Soluble	Solid	300.0	3573
LCS 880-3573/2-A	Lab Control Sample	Soluble	Solid	300.0	3573

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

HPLC/IC (Continued)

Analysis Batch: 3640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-3573/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3573

1

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Client Sample ID: PH02

Date Collected: 05/26/21 09:09 Date Received: 05/26/21 12:53

Lab Sample ID: 890-735-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3541	05/27/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3558	05/27/21 18:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			3573	05/27/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1	3640	05/30/21 11:04	SC	XEN MID

Client Sample ID: PH02A

Date Collected: 05/26/21 09:12 Date Received: 05/26/21 12:53

Lab Sample ID: 890-735-2

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3541 05/27/21 12:00 KL XEN MID Total/NA 8021B XEN MID Analysis 3558 05/27/21 18:56 1 KL Total/NA Prep 8015NM Prep 05/27/21 14:14 XEN MID 3585 DM Total/NA 8015B NM XEN MID Analysis 3616 05/28/21 17:00 ΑJ Soluble XEN MID Leach DI Leach 3573 05/27/21 11:36 СН XEN MID Soluble Analysis 300.0 1 3640 05/30/21 11:10 SC

Client Sample ID: PH03 Lab Sample ID: 890-735-3

Matrix: Solid

Date Collected: 05/26/21 09:27 Date Received: 05/26/21 12:53

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3541	05/27/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3558	05/27/21 19:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			3573	05/27/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1	3640	05/30/21 11:17	SC	XEN MID

Client Sample ID: PH03A Lab Sample ID: 890-735-4 Date Collected: 05/26/21 09:31 Matrix: Solid

Date Received: 05/26/21 12:53

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3541	05/27/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	3558	05/27/21 19:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 17:43	AJ	XEN MID
Soluble	Leach	DI Leach			3573	05/27/21 11:36	СН	XEN MID
Soluble	Analysis	300.0		1	3640	05/30/21 11:23	SC	XEN MID

Eurofins Xenco, Carlsbad

Client Sample ID: PH04

Lab Sample ID: 890-735-5 Date Collected: 05/26/21 09:42 Date Received: 05/26/21 12:53

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 16:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 18:04	AJ	XEN MID
Soluble	Leach	DI Leach			3573	05/27/21 11:36	CH	XEN MID
Soluble	Analysis	300.0		1	3640	05/30/21 11:29	SC	XEN MID

Client Sample ID: PH04A Lab Sample ID: 890-735-6 Date Collected: 05/26/21 09:45

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3570 05/27/21 12:30 KL XEN MID Total/NA 8021B XEN MID Analysis 3571 05/27/21 16:35 1 KL Total/NA Prep 8015NM Prep 05/27/21 14:14 XEN MID 3585 DM Total/NA 8015B NM XEN MID Analysis 1 3616 05/28/21 18:26 ΑJ Soluble XEN MID Leach DI Leach 3587 05/27/21 14:55 СН XEN MID Soluble Analysis 300.0 1 3608 05/28/21 15:04 SC

Client Sample ID: PH05 Lab Sample ID: 890-735-7

Matrix: Solid

Date Collected: 05/26/21 09:58 Date Received: 05/26/21 12:53

Date Received: 05/26/21 12:53

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 16:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	СН	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 15:09	SC	XEN MID

Client Sample ID: PH05A Lab Sample ID: 890-735-8 Date Collected: 05/26/21 10:02

Date Received: 05/26/21 12:53

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 17:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	СН	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 15:23	SC	XEN MID

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Matrix: Solid

Client Sample ID: PH06

Date Collected: 05/26/21 10:13 Date Received: 05/26/21 12:53 Lab Sample ID: 890-735-9

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 17:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 15:28	SC	XEN MID

Lab Sample ID: 890-735-10

Matrix: Solid

Client Sample ID: PH06A Date Collected: 05/26/21 10:17 Date Received: 05/26/21 12:53

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 17:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:13	SC	XEN MID

Client Sample ID: PH07 Lab Sample ID: 890-735-11

Matrix: Solid

Date Collected: 05/26/21 10:27 Date Received: 05/26/21 12:53

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 18:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 20:33	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	СН	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:17	SC	XEN MID

Client Sample ID: PH07A Lab Sample ID: 890-735-12 Date Collected: 05/26/21 10:31

Date Received: 05/26/21 12:53

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 18:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 20:54	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	СН	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:22	SC	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-735-1 Project/Site: ADU CTB SDG: TE012921047

Client Sample ID: PH08

Date Received: 05/26/21 12:53

Lab Sample ID: 890-735-13 Date Collected: 05/26/21 10:41

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 19:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 21:16	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:27	SC	XEN MID

Client Sample ID: PH08A Lab Sample ID: 890-735-14

Date Collected: 05/26/21 10:45 Matrix: Solid Date Received: 05/26/21 12:53

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3570	05/27/21 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	3571	05/27/21 19:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			3585	05/27/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3616	05/28/21 21:37	AJ	XEN MID
Soluble	Leach	DI Leach			3587	05/27/21 14:55	CH	XEN MID
Soluble	Analysis	300.0		1	3608	05/28/21 16:32	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: ADU CTB
Job ID: 890-735-1
SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-20-21	06-30-21
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	

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Method Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-735-1

SDG: TE012921047

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: ADU CTB Job ID: 890-735-1 SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-735-1	PH02	Solid	05/26/21 09:09	05/26/21 12:53	- 1
890-735-2	PH02A	Solid	05/26/21 09:12	05/26/21 12:53	- 4.5
890-735-3	PH03	Solid	05/26/21 09:27	05/26/21 12:53	- 1
390-735-4	PH03A	Solid	05/26/21 09:31	05/26/21 12:53	- 4.5
90-735-5	PH04	Solid	05/26/21 09:42	05/26/21 12:53	- 1
90-735-6	PH04A	Solid	05/26/21 09:45	05/26/21 12:53	- 4.5
00-735-7	PH05	Solid	05/26/21 09:58	05/26/21 12:53	- 1
0-735-8	PH05A	Solid	05/26/21 10:02	05/26/21 12:53	- 4.5
0-735-9	PH06	Solid	05/26/21 10:13	05/26/21 12:53	- 1
0-735-10	PH06A	Solid	05/26/21 10:17	05/26/21 12:53	- 4.5
0-735-11	PH07	Solid	05/26/21 10:27	05/26/21 12:53	- 1
0-735-12	PH07A	Solid	05/26/21 10:31	05/26/21 12:53	- 4.5
0-735-13	PH08	Solid	05/26/21 10:41	05/26/21 12:53	- 1
0-735-14	PH08A	Solid	05/26/21 10:45	05/26/21 12:53	- 4.5

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XENCO			Houston,T	X (281) 240-420	00 Dalla	1S,TX (2	14) 902	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334)
	υ	Hobbs,7	Midland,1 375-392-7!	1X (432-704-54 550) Phoenix,A	40) EL Z (480-	Paso, 17 355-090	x (915); 00) Atla	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (805)794-1295 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	620-2000) www.xenco.com	Page of 2
Project Manager: Tacoma Morrissey	y			Bill to: (if different)	ič)	Kyle Littrell	trell		Work Order Comments	mments
Company Name: WSP USA Inc.				Company Name:		XTO Energy	nergy		Program: UST/PST PRP srownfields	elds RC Duperfund D
Address: 3300 North A Street	et			Address:		3104 E Green Street	Green	Street	State of Project:]
e ZIP:	5			City, State ZIP:		Carlsbad, NM 88220	ad, NM	88220	Reporting:Level II	ST LIRP LiveLIV
			Email:	Email: luis.delval@wsp.com;	wsp.cc		oma.r	tacoma.morrissey@wsp.com	Deliverables: EDD ADaPT	Other:
Name:	ADU CTB		Tur	Turn Around				ANALYSIS REQUEST	EST	Work Order Notes
er:	TE012921047	47	Routine							Incident #: NAPP2108543210
P.O. Number: CC: 1	CC: 1056011001	001	Rush:							
Sampler's Name: Luis Del Val			Due Date:	ate:						
SAMPLE RECEIPT Temp	Temp Blank:	(es) No	Wet Ice:	(Yes No						
Temperature (°C): 54/5-	4	7	Thermometer ID		ner			890-735 C	stody	
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Yes	NA	Correc	4	10:0	f C	3015	0=			TAT starts the day recevied by the
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Sample Identification N	Matrix	Date Sampled	Time Sampled	Depth	Numb	TPH (E	втех	Chlori		Sample Comments
PH02	S	5/26/2021	909		_	×	×	×		
PH02A	S	5/26/2021	912	4.5	_	×	×	×		
PH03	S	5/26/2021	927			×	×	×		
РНОЗА	S	5/26/2021	931	4.5	_	×	×	×		
PH04	S	5/26/2021	942		-	×	×	×		
PH04A	S	5/26/2021	945	4.5	_	×	×	×		
PH05	S	5/26/2021	958		_	×	×	×		
PH05A	S	5/26/2021	1002	4.5	_	×	×	×		
PH06	S	5/26/2021	1013	-1	_	×	×	×		
PH06A	S	5/26/2021	1017	4.5'	_	×	×	×		
Total 200.7 / 6010 200.8 / 6020:	0:	8A	8RCRA 13PP	13PPM Texas 11 Al	11	Sb As	Ba Be		Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na	Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Ha
Circle Method(s) and Metal(s) to be analyzed	be ana		CEP / 3PE	ICEF / SFEF BOID. ONCOA	U 14	2	טמ	No ca		
Notice: Signeture of this document and reinquisiment of of service. Xenco will be liable only for the cost of sample of Yango A minimum observed \$25.00 will be populed to	mencorsa f samples	mples constitut	es a valid purch sume any respo	nase order from o	client co losses d	mpany to	o Xenco ses incu	pature of this document and refinquistiment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control A minimum there of \$72.00 will be applied to such excited and a charge of \$5 for each sample without to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	It assigns standard terms and conditions e due to circumstances beyond the control forced unless previously negotiated.	
Relinguished by: (Signature)		Received by	Received by: (Signature)	θ)		Date/Time	Time	Relinguished by: (Signature)	ure) Received by: (Signature)	e) Date/Time
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								o		

Company Name: Project Manager:

WSP USA Inc. Tacoma Morrissey

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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)

Bill to: (if different) Company Name:

Kyle Littrell XTO Energy

|Program: UST/PST □PRP □\$rownfields □RC □uperfund □

Work Order Comments

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		due to circumstances beyond the control orced unless previously negotiated.	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 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 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 cost of samples and shall not assume that the client if such losses are due to circumstances beyond the cost of samples and shall not assume that the client if such losses are due to circumstances beyond the cost of samples and shall not assume that the client if such losses are due to circumstances beyond the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples and shall not assume that the cost of samples are constituted by the client if such losses are due to circumstances that the cost of samples are constituted by the cost of samples and samples are constituted by the cost of samples are constituted by t	es incurred by	or expense	y losses submitted	ny responsibility for an of \$5 for each sample	ill not assume an	of samples of sharples and sharples and sharples of sach projections.	or the cost of samp	liable only f	m ii a
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	SiO2 Na Sr TI Sn U V Zn	Mg Mn Mo Ni K Se Ag Si	Cd Ca Cr Co Cu Fe Pb	Ba Be B	Sb As	≥	13PPM Texas 11	8RCRA		200.8 / 6020:	Total 200.7 / 6010 2	Σ.
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<u> Б</u>				×	×		4.5	2021 1031	5/26/2021	S	7A	PH07A
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20	lab, if received by 4:30pm				PA 8	er of	ners:	Total Containers:		8		Sample Custody Seals:
	TAT starts the day recevied by the				015)	Co	actor: -0.7	Correction Factor:		Yes No N/A		Cooler Custody Seals:
1.						ntai		MM-007	1-1	(Yes) No		
)		ner	eter ID	Thermometer ID		5.452		Temperature (°C):
						3	Wet ice: Les No	No Wet	6	Temp Blank:	SAMPLE RECEIPT	[[
				_			Due Date:			Val	Luis Del Val	Sampler's Name:
							Rush:	F	011001	CC: 1056011001		i
	Incident #: NAPP2108543210						Routine X	T	21047	TE012921047		
	Work Order Notes	ST .	ANALYSIS REQUEST				Turn Around		BTC	ADU CTB		
	ADaPT Other:	Deliverables: EDD		oma.morris	om; tacc	wsp.c	Email: uis.delval@wsp.com; tacoma.morrissey@wsp.com	<u> </u>		.3849	432.236.3849	
	ST/UST TAP TVELIV	Reporting:Level II		Carlsbad, NM 88220	Carlsba	.⊽	City, State ZIP:			Midland, TX 79705	Midland,	
	! 	State of Project:	3	3104 E Green Street	3104 E		Address:			3300 North A Street	3300 No	

으

Work Order No:

1089 N Canal St.

Eurofins Xenco, Carlsbad

13

Chain of Custody Record

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eurofins :

Environment Testing

Project Name: ADU CTB State, Zip TX, 79701 Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. PH05A (890-735-8) PH04A (890-735-6) PH04 (890-735-5) Deliverable Requested I, II, III IV Other (specify) PH06 (890-735-9) PH05 (890-735-7) PH03A (890-735-4) Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 elinquished by impty Kit Relinquished by ossible Hazard Identification ²H03 (890-735-3) PH02A (890-735-2) PH02 (890-735-1) 432-704-5440(Tel) elinquished by: 1211 W Florida Ave Custody Seals Intact linquished by: Midland nconfirmed ample Identification - Client ID (Lab ID hipping/Receiving irofins Xenco ient Information Yes ∆ No 8 Custody Seal No (Sub Contract Lab) Ŋ Due Date Requested 6/2/2021 Date/Time Date/Time: Primary Deliverable Rank WO# Sampler Phone: 89000004 TAT Requested (days) Sample Date 5/26/21 5/26/21 5/26/21 5/26/21 5/26/21 5/26/21 5/26/21 5/26/21 5/26/21 Date Mountain 10 13 Mountain 09 58 Mountain 09 12 Mountain 09 27 Mountain 10 02 Mountain Mountain 09 45 Mountain 09 42 Mountain 09 31 Sample 09 09 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid jessica kramer@eurofinset com Kramer, Jessica _ab PM Time NELAP - Louisiana, NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal Review Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by Received by × × × × × × × 8016MOD_NM/8015NM_S_Prep Full TPH Return To Client × × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × × 8021B/6035FP_Calc BTEX Analysis Requested Disposal By Lab State of Origin.
New Mexico Carrier Tracking No(s) Date/Time: Archive For _ Total Number of containers A HCL
B-NaOH
C Zn Acetate
C Nitric Acid
E NaHSO4
F-MeOH
G-Amchlor
H Ascorbic Acid I - Ice J DI Water K EDTA L EDA COC No: 890-241 1 Preservation Codes Page 1 of 2 890-735-1 Special Instructions/Note B M - Hexane
N - None
O AsNao2
P - Na2O4S
Q Na2SO3
R - Na2SO3
R - Na2SO3
T TSP Dodecanydrate
U - Acetone
U - MCAA W pH 4-5 Z other (specify) Company Company Company Months

Ver: 11/01/2020

Relinquished by Relinquished by dinquished by:

Date/Time: Date/Time

Company Company

Received by:

Cooler Temperature(s) °C and Other Remarks

Ver 11/01/2020

Custody Seals Intact

Custody Seal No

1089 N Canal St. **Eurofins Xenco, Carlsbad**

Date Time	chooler means trains to	ennested II III IV Other (specify) Primary Deliverable Rank 2	Return To Client	Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer	Law Canada International Justice and Control of the	LLC attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurotins Xeroo LLC.	maintain accreditation in the State of Origin isted above for analysis resistmatify being analysed the samples must be sinpled back to the Eurolins Acrob Lt. Laboratory of other instructions will be provided. Any creatives to accumulate the resemble and to be all commonly and to the Eurofins Acrob Lt. Laboratory of other instructions are current to date return the stoned Chain of Clustory attention to said complicance to Eurofins Acrob Lt. Laboratory of other instructions will be provided and the same that the stoned Chain of Clustory attention to be all complicance to Eurofins Acrob Lt. Laboratory of other instructions will be provided and the same that the same th	Note: Since laboratory accretitations are subject to change Eurofins Xence ILC places the ownership of method analyte & accreditation compliance upon out subcontract laboratory accretitation services and the service of the laboratory accretitation compliance upon out subcontract laboratories. This is sample shipment is forwarded under chain-of-custory if the laboratory accretitation compliance upon out subcontract laboratories. This is sample shipment is forwarded under chain-of-custory if the laboratory accretitation compliance upon out subcontract laboratories. This is sample shipment is forwarded under chain-of-custory if the laboratory accretitation compliance upon out subcontract laboratories.					PH08A (890-735-14) 5/26/21 Mountain Solid X X X X	Mountain	PH08 (890-735-13) 5/26/21 10.41 Solid X X X X	PH07A (890-735-12) 5/26/21 Mountain Solid X X X X	MOUNTAIN I I I	PH07 (890-735-11) 5/26/21 10 27 Solid X X X X	11 1894 (890 735 10) Salid X X X X 4	TO 17 Preservation code: NX		Sample Identification - Client ID (Lab ID) Sample Date Time G=grab) B1=Tissue, A=AI) II	Type Seoild, Fill Orm MOI ORC	D_N 3FM	S S S S S S S S S S	SD 016I	Piete South	S OF	S Or No)	No riuli	TPH	9701		Midland	TAT Requested (days):	1211 W Florida Ave 6/2/2021 Analysis Requested	S ACTION Into Date Democracy Interpretation in the Companies of the Comp	Accreditations Required (See note)	ceiving jessica kramer@eurofinset com New Mexico	Phone E-Mail State of Origin:	Client Information (Sub Contract Lab) Sampler Lab PM Kramer Jessica	I of the	3220	1089 N Canal St. Chain of Clistody Record
これで	Method of Shipment:	C Requirements.	Disposal By Lab Arch	may be assessed if samples are retain			ructions will be provided. Any changes to accredital	 This sample shipment is forwarded under chain-o This sample shipment is forwarded under chain-o 				Section 1	A Company of the Comp								A contract of the same and the	Tota	1 10	uml	ber	of c	ón	tain		i i i i i i i i i i i i i i i i i i i						ysis Requested	- 1 GAGG	Toyas	New Mexico	State of Origin:	Carner Tracking No(s)	Operior Topking No.(a)		
ン INA Company				ned longer than 1 month)			ilion status sriourd be prought i	of-custody If the laboratory do		, eek, z	2.14.00	ho es	adted ou									Special Instructions/Note			7.3.2	nonet in	Other	L EDA Z (J DI Water V	ice	± ⊣ω	- MeOH R	E NaHSO4 Q Na2SO3	Zn Acetate O	NaOH	eset various codes	Dracenyation Codes	Job #:	Page 2 of 2	Page	890-241 2	COC No.	America	Environment Testing

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-735-1

SDG Number: TE012921047

Login Number: 735 List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Ordonez, Gabby

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	

y **2** / 0

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-735-1 SDG Number: TE012921047

Login Number: 735 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 05/27/21 11:06 AM

Creator: Kramer, Jessica

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

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<6mm (1/4").

Analytical Report 638613

for

LT Environmental, Inc.

Project Manager: Dan Moir
ADU 157 (2RP-4778)
012918118
08-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08-OCT-19

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): 638613

ADU 157 (2RP-4778)

Project Address: Carlsbad, NM

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 638613. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 638613 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 638613

LT Environmental, Inc., Arvada, CO

ADU 157 (2RP-4778)

Sample IdMatrixDate CollectedSample DepthLab Sample IdWS01W10-01-19 11:20638613-001

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: ADU 157 (2RP-4778)

 Project ID:
 012918118
 Report Date:
 08-OCT-19

 Work Order Number(s):
 638613
 Date Received:
 10/01/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 638613

LT Environmental, Inc., Arvada, CO Project Name: ADU 157 (2RP-4778)

Project Id: 012918118
Contact: Dan Moir

Carlsbad, NM

Project Location:

Date Received in Lab: Tue Oct-01-19 12:55 pm

Report Date: 08-OCT-19 **Project Manager:** Jessica Kramer

	Lab Id:	638613-001			
Analysis Requested	Field Id:	WS01			
	Depth:				
	Matrix:	WATER			
	Sampled:	Oct-01-19 11:20			
TDS by SM2540C	Extracted:				
SUB: T104704400-19-19	Analyzed:	Oct-03-19 15:00			
	Units/RL:	mg/L RL			
Total Dissolved Solids		11600 5.00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer



Certificate of Analytical Results 638613

LT Environmental, Inc., Arvada, CO

ADU 157 (2RP-4778)

Sample Id: WS01 Matrix: Water

Lab Sample Id: 638613-001 Date Collected: 10.01.19 11.20

Analytical Method: TDS by SM2540C

Tech: SPC

Analyst:

SPC

Seq Number: 3103415

% Moisture:

SUB: T104704400-19-19

Date Received:10.01.19 12.55

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	11600	5.00	mg/L	10.03.19 15.00		1



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 638613

LT Environmental, Inc.

ADU 157 (2RP-4778)

Analytical Method: TDS by SM2540C

Seq Number: 3103415 Matrix: Water

LCS Sample Id: 3103415-1-BKS LCSD Sample Id: 3103415-1-BSD MB Sample Id: 3103415-1-BLK

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

Total Dissolved Solids 985 80-120 10 mg/L 10.03.19 15:00 < 5.00 1000 99 986 99 0

Analytical Method: TDS by SM2540C

Seq Number: 3103415 Matrix: Water

MD Sample Id: 638660-003 D Parent Sample Id: 638660-003

Parent MD %RPD RPD Limit Units Analysis Flag **Parameter** Result Result Date

1130 Total Dissolved Solids 1130 0 10 mg/L 10.03.19 15:00

Analytical Method: TDS by SM2540C

Seq Number: 3103415 Matrix: Water

MD Sample Id: 638845-007 D Parent Sample Id: 638845-007

MD %RPD RPD Limit Units **Parent** Analysis Flag **Parameter** Result Date Result

Total Dissolved Solids 1710 10.03.19 15:00 1720 1 10 mg/L

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result E = MSD/LCSD Result

B = Spike AddedD = MSD/LCSD % Rec

MS = Matrix Spike



Page 1 of 1

IOS Number 49088

Date/Time: 10/01/19 14:56

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Lab# From: Carlsbad

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: Midland

Air Bill No.: 776429985847

E-Mail: jessica.kramer@xenco.com

Sam	nple Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
63861	13-001	W	WS01	10/01/19 11:20	SM2540C	TDS by SM2540C	10/07/19	10/08/19	JKR	TDS	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 10/01/2019

Received By:

Date Received: <u>10/02/2019 11:14</u>

Cooler Temperature: 2.1



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 49088

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

Date Sent: 10/01/2019 02:56 PM Sent By: Elizabeth McClellan

Received By: Brianna Teel	Date Received: 10/02/2019 11:	14 AM	
	Sample Receipt Checklis	t	Comments
#1 *Temperature of cooler(s)?		2.1	
#2 *Shipping container in good condition	on?	Yes	
#3 *Samples received with appropriate	temperature?	Yes	
#4 *Custody Seals intact on shipping of	ontainer/ cooler?	Yes	
#5 *Custody Seals Signed and dated for	or Containers/coolers	Yes	
#6 *IOS present?		Yes	
#7 Any missing/extra samples?		No	
#8 IOS agrees with sample label(s)/ma	atrix?	Yes	
#9 Sample matrix/ properties agree wit	h IOS?	Yes	
#10 Samples in proper container/ bottle	e?	Yes	
#11 Samples properly preserved?		Yes	
#12 Sample container(s) intact?		Yes	
#13 Sufficient sample amount for indic	ated test(s)?	Yes	
#14 All samples received within hold ti	me?	Yes	
* Must be completed for after-hours d NonConformance:	elivery of samples prior to placii	ng in the refrigerator	
Corrective Action Taken:			
	Nonconformance Docume	entation	
Contact:	Contacted by :	Date:	
Checklist reviewed by:	Bawa Tal Brianna Teel	Date: 10/02/2019	



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Work Order #: 638613

Date/ Time Received: 10/01/2019 12:55:00 PM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: T-NM-007

Sample	e Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cool	er? Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	Yes	
#9 Chain of Custody signed when relinquished/ rece	ived? Yes	
#10 Chain of Custody agrees with sample labels/ma	trix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	Yes	Subbed to Midland
#18 Water VOC samples have zero headspace?	N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 10/01/2019

Date: 10/03/2019



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-751-1

Laboratory Sample Delivery Group: TE012921047

Client Project/Site: ADU CTB

For:

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

Attn: Dan Moir

SKRAMER

Authorized for release by: 6/3/2021 9:46:08 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/16/2021 2:55:52 PM

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

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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Client: WSP USA Inc.
Project/Site: ADU CTB

Laboratory Job ID: 890-751-1
SDG: TE012921047

Table of Contents

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QC Sample Results	7
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
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7

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-751-1 Project/Site: ADU CTB SDG: TE012921047

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **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) Limit of Quantitation (DoD/DOE) LOQ

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit **PRES**

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

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TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-751-1

SDG: TE012921047

Job ID: 890-751-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-751-1

Receipt

The sample was received on 6/2/2021 11:33 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS03A (890-751-1).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-751-1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-751-1

Project/Site: ADU CTB

SDG: TE012921047

Client Sample ID: FS03A

Date Collected: 06/02/21 10:04 Date Received: 06/02/21 11:33

Sample Depth: - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/03/21 08:59	06/03/21 13:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/03/21 08:59	06/03/21 13:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/03/21 08:59	06/03/21 13:17	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/03/21 08:59	06/03/21 13:17	
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/03/21 08:59	06/03/21 13:17	
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		06/03/21 08:59	06/03/21 13:17	
Total BTEX	<0.00397	U	0.00397	mg/Kg		06/03/21 08:59	06/03/21 13:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	94		70 - 130			06/03/21 08:59	06/03/21 13:17	
1,4-Difluorobenzene (Surr)	94		70 - 130			06/03/21 08:59	06/03/21 13:17	1
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)						
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL 49.8	Unit ma/Ka	<u>D</u>	Prepared 06/03/21 11:30	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	06/03/21 11:30	06/03/21 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	49.8	mg/Kg	<u> </u>	06/03/21 11:30	06/03/21 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U	49.8	mg/Kg	<u>D</u>	06/03/21 11:30 06/03/21 11:30	06/03/21 15:44 06/03/21 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/03/21 11:30 06/03/21 11:30 06/03/21 11:30	06/03/21 15:44 06/03/21 15:44 06/03/21 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u> </u>	06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 06/03/21 11:30	06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 06/03/21 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U	49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 Prepared	06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 Analyzed	Dil Fa
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u> </u>	06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 Prepared 06/03/21 11:30	06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 Analyzed 06/03/21 15:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8 <49.8 <49.8 <49.8 <49.8 MRecovery 104 99 omatography -	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 06/03/21 11:30 Prepared 06/03/21 11:30	06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 06/03/21 15:44 Analyzed 06/03/21 15:44	Dil Fac

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-751-1

Project/Site: ADU CTB

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_ 				Percent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-751-1	FS03A	94	94	
LCS 880-3757/1-A	Lab Control Sample	111	102	
LCSD 880-3757/2-A	Lab Control Sample Dup	111	104	
MB 880-3757/5-A	Method Blank	84	95	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (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)	
890-751-1	FS03A	104	99	
LCS 880-3764/2-A	Lab Control Sample	104	98	
LCSD 880-3764/3-A	Lab Control Sample Dup	93	85	
MB 880-3764/1-A	Method Blank	101	100	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-751-1

SDG: TE012921047

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3757/5-A

Matrix: Solid

Client: WSP USA Inc.

Project/Site: ADU CTB

Analysis Batch: 3760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3757

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/03/21 08:59	06/03/21 12:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/03/21 08:59	06/03/21 12:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/03/21 08:59	06/03/21 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/03/21 08:59	06/03/21 12:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/03/21 08:59	06/03/21 12:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/03/21 08:59	06/03/21 12:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/03/21 08:59	06/03/21 12:15	1

MB MB

Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	70 - 130	06/03/21 08:59	06/03/21 12:15	1
1,4-Difluorobenzene (Surr)	95	70 ₋ 130	06/03/21 08:59	06/03/21 12:15	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 3760

Lab Sample ID: LCS 880-3757/1-A

Prep Type: Total/NA

Prep Batch: 3757

	Spike	LCS	LUS			%Rec.	
Analyte	Added	Result	Qualifier Uni	t D	%Rec	Limits	
Benzene	0.100	0.09094	mg/	Kg	91	70 - 130	
Toluene	0.100	0.08917	mg/	Kg	89	70 - 130	
Ethylbenzene	0.100	0.09572	mg/	Kg	96	70 - 130	
m-Xylene & p-Xylene	0.200	0.2034	mg/	Kg	102	70 - 130	
o-Xylene	0.100	0.1020	mg/	Kg	102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1 4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-3757/2-A

Matrix: Solid

Analysis Batch: 3760

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3757

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09334		mg/Kg		93	70 - 130	3	35
Toluene	0.100	0.09134		mg/Kg		91	70 - 130	2	35
Ethylbenzene	0.100	0.09707		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2070		mg/Kg		103	70 - 130	2	35
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1.4-Difluorobenzene (Surr)	104	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-751-1 Project/Site: ADU CTB SDG: TE012921047

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

Lab Sample ID: MB 880-3764/1-A

Matrix: Solid Analysis Batch: 3762 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3764

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/03/21 09:22	06/03/21 14:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/03/21 09:22	06/03/21 14:43	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/03/21 09:22	06/03/21 14:43	1
Total TPH	<50.0	U	50.0	mg/Kg		06/03/21 09:22	06/03/21 14:43	1

MB MB

MD MD

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	101		70 - 130	06/03/21 09:22	06/03/21 14:43	1
Į	o-Terphenyl	100		70 - 130	06/03/21 09:22	06/03/21 14:43	1

Lab Sample ID: LCS 880-3764/2-A

Matrix: Solid

Analysis Batch: 3762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3764

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 835.7 84 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 971.8 mg/Kg 97 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-3764/3-A

Matrix: Solid

Analysis Batch: 3762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 3764

Allalysis Datoll. 0702							1.10	p Dateii.	. 0104	
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	938.3		mg/Kg		94	70 - 130	12	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	954.4		mg/Kg		95	70 - 130	2	20	
C10-C28)										

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 93 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 85

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3747/1-A

Matrix: Solid

Analysis Batch: 3774

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 06/03/21 13:36

QC Sample Results

Client: WSP USA Inc. Job ID: 890-751-1 Project/Site: ADU CTB SDG: TE012921047

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3747/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble Analysis Batch: 3774**

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	242.6		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-3747/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3774

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	241.9		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-751-1

SDG: TE012921047

GC VOA

Prep Batch: 3757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-751-1	FS03A	Total/NA	Solid	5035	
MB 880-3757/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3757/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3757/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3760

Lab Sample ID 890-751-1	Client Sample ID FS03A	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 3757
MB 880-3757/5-A	Method Blank	Total/NA	Solid	8021B	3757
LCS 880-3757/1-A	Lab Control Sample	Total/NA	Solid	8021B	3757
LCSD 880-3757/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3757

GC Semi VOA

Analysis Batch: 3762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-751-1	FS03A	Total/NA	Solid	8015B NM	3764
MB 880-3764/1-A	Method Blank	Total/NA	Solid	8015B NM	3764
LCS 880-3764/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3764
LCSD 880-3764/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3764

Prep Batch: 3764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-751-1	FS03A	Total/NA	Solid	8015NM Prep
MB 880-3764/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-3764/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-3764/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

HPLC/IC

Leach Batch: 3747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-751-1	FS03A	Soluble	Solid	DI Leach	
MB 880-3747/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3747/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3747/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-751-1	FS03A	Soluble	Solid	300.0	3747
MB 880-3747/1-A	Method Blank	Soluble	Solid	300.0	3747
LCS 880-3747/2-A	Lab Control Sample	Soluble	Solid	300.0	3747
LCSD 880-3747/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3747

Lab Chronicle

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-751-1
SDG: TE012921047

Client Sample ID: FS03A

Lab Sample ID: 890-751-1

Matrix: Solid

Date Collected: 06/02/21 10:04 Date Received: 06/02/21 11:33

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3757	06/03/21 08:59	KL	XEN MID
Total/NA	Analysis	8021B		1	3760	06/03/21 13:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			3764	06/03/21 11:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3762	06/03/21 15:44	AM	XEN MID
Soluble	Leach	DI Leach			3747	06/03/21 11:48	СН	XEN MID
Soluble	Analysis	300.0		1	3774	06/03/21 17:52	SC	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: ADU CTB

Job ID: 890-751-1
SDG: TE012921047

Laboratory: Eurofins Xenco, Midland

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

Authority	F	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-20-21	06-30-21
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

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Method Summary

Client: WSP USA Inc.

Project/Site: ADU CTB

Job ID: 890-751-1

SDG: TE012921047

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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
DLLeach	Deignized Water Leaching Procedure	ΔSTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: ADU CTB

Job ID: 890-751-1 SDG: TE012921047

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-751-1	FS03A	Solid	06/02/21 10:04	06/02/21 11:33	- 2.5

Project Manager: Dan Moir		CAR		
Dan Moir			コスラン	
	Hobbs, NM (575-392	Midlan	Houston	
Bill to: (if different) Kyle Littrell	-7550) Phoenix,AZ (48	d,TX (432-704-5440) E	TX (281) 240-4200 Da	ဂ
Kyle Littrell	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody
	13-620-2000)		4	

Company Name: Midland, Tx 79705 WSP USA Inc., Permian office 3300 North A Street City, State ZIP: Company Name: XTO Energy, Inc. Program: UST/PST ☐RP ☐rownfields State of Project: www.xenco.com **Work Order Comments** 尽 lβvel IV **⊕**perfund 으

	υπ	3/1/2	Relinquished by: (Signature	Notice: Signature of this do of service. Xenco will be lie of Xenco. A minimum char	Total 200.7 / 6010 Circle Method(s) a				/	FS03A	Sample Identification	Sample Custody Seals	Cooler Custody Seals:	Temperature (°C): Received Intact:	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone: (
		1/1-()		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.	otal 200.7 / 6010 200.8 / 6020: 8R Circle Method(s) and Metal(s) to be analyzed T			/ /		s 6/2/2021	Matrix Sampled	Yes No N/A	NA	(Yes) No TUM	Temp Blank: Yes No	William Mather	Eddy	TE012921047	ADU CTB	(432) 236-3849
		V	Received by: (Signature)	utes a valid purchase order from ssume any responsibility for a charge of \$5 for each samples.	8RCRA 13PPM Texas 11 / TCLP / SPLP 6010: 8RCRA	0	7			10:04 2.5'	Time Depth	Total Containers:	Correction Factor: ーク- と	Thermometer ID	Wet Ice: (Yes No	Due Date:	Rush: 244	Routine []	Turn Around	Email: will.mather@wsp
		6/2/21/11:33	Date/Time	om client company to Xenco, its any losses or expenses incurred e submitted to Xenco, but not ar	11 Al Sb As Ba Be I					1 × × ×	Numb TPH (E BTEX (PA 8	015) 0=80	21)	rs					Email: will.mather@wsp.com, dan.moir@wsp.com
	0	4 12	Relinquished by: (Signature)	affiliates and subcontractors. It assigns stard by the client if such losses are due to circustalyzed. These terms will be enforced unless	Ⅲ≥ 5.									Chain of Custody	300 75				ANALYSIS REQUEST	Deli
			Received by: (Signature)	iors. It assigns standard terms and conditions uses are due to circumstances beyond the control be enforced unless previously negotiated.	\g SiO2								_				-			Deliverables: EDD ADaPT
Revised Date 051418 Rev 2018 1			ure) Date/Time		Na Sr TI Sn U V Zn 1631 245.1 7470 7471 : H g					Composite	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the				Cost Center: 1056011001	Incident ID: NAPP2108543210	Work Order Notes	T Other:

Work Order No:

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

1089 N Canal St.

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

💸 eurofins

Environment Testing

State Zip: TX 79701 Empty Kit Relinquished by Project Name: ADU CTB elinquished by: Deliverable Requested | II III IV Other (specify) ossible Hazard Identification Ide. Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. FS03A (890-751-1) Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Midland elinquished by elinquished by 1211 W Florida Ave Client Information าconfirmed rofins Xenco ipping/Receiving MAND (Sub Contract Lab) Custody Seal No Date/Time: Date/Time: Date/Time Primary Deliverable Rank. 2 #WOSS Sampler 89000004 **}**0# TAT Requested (days) Due Date Requested 6/3/2021 Phone roject #: 6/2/21 Date Mountain Sample 2 G=grab) (C=comp, Sample Preservation Code: Type BT=TIssue, A=Air Company Company S=solid, O=waste/oil, Matrix (W=water E-Mail essica kramer@eurofinset.com Kramer Jessica Ime Field Filtered Sample (Yes or No) Accreditations Required (See note). NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Received by: Cooler Temperature(s) °C and Other Remarks 8016MOD_NM/8016NM_S_Prep Full TPH × Return To Client × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6035FP_Calc BTEX Analysis Requested Disposal By Lab New Mexico State of Origin Carrier Tracking No(s): Method of Shipment Date/Time Archive For Total Number of containers A HCL
B NaOH
C Zn Acetate
D - Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid COC No: 890-246 1 Preservation Codes 390-751-1 Page 1 of lce
DI Water
EDTA
EDA E M Hexane
N - None
Netate O AsNaO2
Acid P Na2O4S
Q Na2SO3
R - Na2SO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
V r²¹ Special Instructions/Note: 3 N ≶ < C Company Company Company N pH 4-5
cother (specify)

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-751-1

SDG Number: TE012921047

Login Number: 751 List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Ordonez, Gabby

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: 890-751-1 SDG Number: TE012921047

Login Number: 751 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 06/03/21 11:09 AM

Creator: Copeland, Tatiana

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

Eurofins Xenco, Carlsbad

Released to Imaging: 9/16/2021 2:55:52 PM

<6mm (1/4").

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 32302

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	32302
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
	XTO's deferral requests to complete final remediation of 2 residual impacted soil areas that were left in place immediately surrounding and beneath active production equipment (Figure 4). Remediation will take place during future major deconstruction/alteration and/or abandonment, whichever occurs first. At this time, OCD approves the request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a federal site and will require like approval from BLM.	9/16/2021