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	NAPP2117561837
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.49522 Longitude -103.25751
(NAD 83 in decimal degrees to 5 decimal places)

Site Name AJ Adkins Battery #3	Site Type Tank Battery
Date Release Discovered 6/10/2021	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
E	10	21S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Millard Deck)

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 Released (bbls) 7.28	Volume Recovered (bbls) 7
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Fluids released from a hole in the tank due to corrosion. A third party contractor has been retained for remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2117561837
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Adrian Baker
Title: SH&E Coordinator
Signature: Adrian Baker
Date: 6/24/2021
email: Adrian.Baker@exxonmobil.com
Telephone: 432-221-7331

OCD Only

Received by: Ramona Marcus
Date: 6/30/2021

Location:	AJ Adkins Battery #3	
Spill Date:	6/10/2021	
Area 1		
Approximate Area =	418.00	sq. ft.
Average Saturation (or depth) of spill =	1.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	7.28	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	7.28	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	7.00	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 33689

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 33689
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	6/30/2021

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Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2117561837
District RP	
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2117561837
District RP	
Facility ID	
Application ID	

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

Printed Name: Toby Holland Title: Environmental Coordinator

Signature: Toby Holland Date: 09/08/2021

email: tholland@empirepetrocorp.com Telephone: (575) 704-2329

OCD Only

Received by: Date:

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2117561837
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Toby Holland Title: Environmental Coordinator

Signature: Toby Holland Date: 09/08/2021

email: tholland@empirepetrocorp.com Telephone: (575) 704-2329

OCD Only

Received by: Chad Hensley Date: 10/05/2021

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

Signature: Chad Hensley Date: 10/05/2021

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

September 8, 2021

District I
New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, New Mexico 88240

RE: Deferral Request
AJ Adkins Battery #3
Incident Number NAPP2117561837
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of Empire New Mexico, LLC (Empire), presents the following Deferral Request detailing site assessment and soil sampling activities at the AJ Adkins Battery #3 (Site) in Unit E, Section 10, Township 21 South, Range 36 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of crude oil within and around a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Empire is submitting this Deferral Request, describing site assessment, excavation, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2117561837 until the Site is reconstructed, and/or the well pad is abandoned.

RELEASE BACKGROUND

On June 10, 2021, a hole developed in a tank due to corrosion resulting in the release of approximately 7.28 barrels (bbls) of crude oil into a lined earthen containment and onto the well pad. Approximately 7 bbls of crude oil were recovered. XTO Energy, Inc. (XTO), the operator of the facility prior to Empire, submitted a Form C-141 on June 24, 2021 to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number NAPP2117561837 and Empire completed site assessment and remediation activities as the current operators of the facility.

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 00692, located approximately 0.25 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 195 feet bgs and a total depth of 215 feet bgs. Ground surface elevation at the groundwater well location is 3,603 feet above mean sea level (amsl), which is approximately 8 feet higher in elevation than the Site. NMOSE well CP 00734, reportedly located 485 feet to the north of the release, was installed in 1988 at the top of the "red bed" with a 15-foot water column. The well had a reported depth to groundwater of 200 feet and a total depth of 215 feet bgs. WSP personnel conducted a 10,000-foot radius pedestrian survey to confirm the presence or absence of this well. The well was not found and is believed to be abandoned or its location is incorrectly reported. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 15,360 feet northeast 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 (low 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 AND DELINEATION SOIL SAMPLING ACTIVITIES

On August 11, 2021 WSP personnel were at the Site to evaluate the release extent based on information provided on the C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples, SS01 through SS04 within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. Preliminary soil samples SS01 through SS03 were collected from within the earthen containment and SS04 was collected outside containment where the release reached the well pad. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release

extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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 (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that BTEX, TPH-GRO/TPH-DRO, and/or TPH concentrations exceeded the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation and delineation activities were warranted.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

Between August 27, 2021 and August 31, 2021, WSP personnel were at the Site to oversee site assessment and excavation activities. Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a backhoe, transport vehicle, and hydrovac. The excavation occurred within the earthen containment until the liner was encountered. A portion of the excavation also occurred on the well pad. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Photographic documentation is included in a photographic log in Attachment 2.

Following removal of impacted soil to the extent possible, WSP collected a 5-point composite soil sample representing a 200 square feet area from the sidewall and floor of the excavation outside of the earthen containment. The 5-point composite was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample FS01 was collected from the excavation at a depth of 1 foot bgs. Additional composite soil samples could not be collected from within the containment due to the presence of the impermeable liner within the earthen containment. The excavation extents, location of floor sample FS01, and the exposed liner are depicted on Figure 3. Impacted soil left near active production equipment within the lined earthen containment was treated with a solution of MicroBlaze® to address potential residual TPH concentrations.

Following the removal of impacted soil within the earthen containment, a liner inspection was conducted by a person familiar with site operations and liner construction. A tear in the liner was

observed on the western side of the containment. One borehole (BH05) was advanced via hand auger at the location of the tear in the liner to assess the vertical extent of impacted soil. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Two delineation soil samples were collected from borehole BH05 at depths of 1 foot bgs and 2 feet bgs. Four additional boreholes (BH01 through BH04) were advanced around the outside of the well pad to confirm lateral delineation. Boreholes BH01 through BH04 were advanced to a depth of 1-foot bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Two delineation soil samples were collected from each borehole at depths of 0.5 feet and 1 feet bgs.

Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The borehole and delineation soil sample locations are depicted on Figure 4. Following delineation activities, the tear in the liner was bonded and repaired to restore the integrity of the liner. Photographic documentation of the liner repair is included in Attachment 2. The excavation and delineation soil samples were handled as described above and transported to Eurofins Xenco in Carlsbad, New Mexico.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for excavation soil sample FS01, collected at 1 foot bgs, indicate that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil sample BH05, collected at 1 foot bgs directly below the tear in the liner, indicate that TPH-DRO/TPH-GRO and TPH concentrations exceeded the Closure Criteria. Subsequent sample BH01, collected at 2 feet bgs, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and delineated to the strictest Table 1 Closure Criteria. Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH04 indicate that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and provide full lateral delineation. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

DEFERRAL REQUEST

Empire is requesting deferral of final remediation due to the presence of active production equipment within the lined, earthen containment. The impacted soil is limited to the area immediately beneath the lined containment and surrounding active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining immediately adjacent to active production equipment is limited to the area below equipment and above a liner. The impacted soil remaining in place beneath the

liner is delineated vertically by delineation soil sample BH05 collected at 2 feet bgs and laterally by delineation soil samples BH01 through BH04. A maximum of 50 cubic yards of TPH impacted soil remains in place within 2 feet of production equipment and beneath the liner assuming a maximum 1 foot depth based on the delineation soil samples listed above, that were compliant with the Closure Criteria.

WSP and Empire do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater is greater than 100 feet bgs, the majority of the released fluids were recovered during initial response activities, impacted soil was removed above the liner, and any impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired will prevent vertical migration of TPH impacts which will naturally attenuate over time.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Empire requests deferral of final remediation for Incident Number NAPP2117561837 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,

WSP USA Inc.

Tacoma Morrissey
Consultant, Geologist

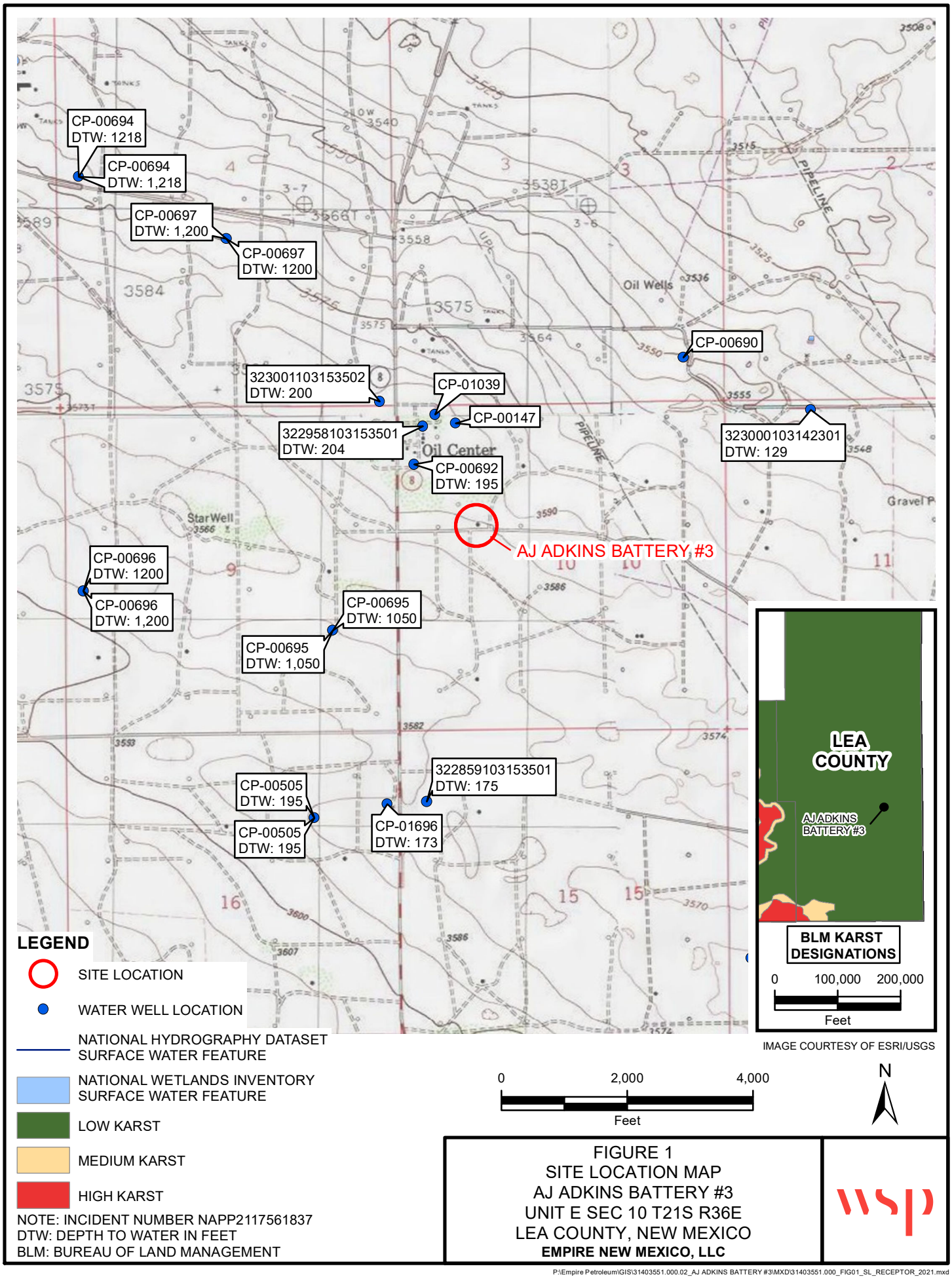
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Toby Holland, Empire
Millard Deck

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Delineation Soil Sample Locations
Table 1	Soil Analytical Results

FIGURES



NOTE: INCIDENT NUMBER NAPP2117561837
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
AJ ADKINS BATTERY #3
UNIT E SEC 10 T21S R36E
LEA COUNTY, NEW MEXICO
EMPIRE NEW MEXICO, LLC

P:\Empire Petroleum\GIS\31403551.000.02_AJ ADKINS BATTERY #3\MXD\31403551.000_FIG01_SL_RECEPTOR_2021.mxd

LEGEND

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- LINER TEAR
- RELEASE EXTENT
- EARTHEN BERM

NOTE: INCIDENT NUMBER NAPP2117561837
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
AJ ADKINS BATTERY #3
UNIT E SEC 10 T21S R36E
LEA COUNTY, NEW MEXICO
EMPIRE NEW MEXICO, LLC

wsp

P:\Empire Petroleum\GIS\31403551.000.02_AJ ADKINS BATTERY #3\MXD\31403551.000_FIG02_PRELIMINARY_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- EARTHEN BERM
- EXCAVATION ABOVE EXISTING LINER
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAPP2117561837
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

0 50 100
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
AJ ADKINS BATTERY #3
UNIT E SEC 10 T21S R36E
LEA COUNTY, NEW MEXICO
EMPIRE NEW MEXICO, LLC

wsp

P:\Empire Petroleum\GIS\31403551.000.02_AJ ADKINS BATTERY #3\MXD\31403551.000_FIG03_EXCAVATION_2021.mxd

LEGEND

IMAGE COURTESY OF ESRI

DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA

DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT

EARTHEN BERM

0 50 100

Feet

N

NOTE: INCIDENT NUMBER NAPP2117561837
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 4
DELINEATION SOIL SAMPLE LOCATIONS
AJ ADKINS BATTERY #3
UNIT E SEC 10 T21S R36E
LEA COUNTY, NEW MEXICO
EMPIRE NEW MEXICO, LLC

wsp

P:\Empire Petroleum\GIS\31403551.000.02_AJ ADKINS BATTERY #3\MXD\31403551.000_FIG04_DELINEATION_2021_1.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

AJ ADKINS BATTERY #3
INCIDENT NUMBER NAPP2117561837
LEA COUNTY, NEW MEXICO
EMPIRE NEW MEXICO, LLC

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**20,000**
SS01	0.5	08/11/2021	1.09	16.5	16.7	26.8	**61.1**	713	3,490	516	**4,200**	**4,720**	64.5
SS02	0.5	08/11/2021	7.68	176	30.9	92.1	**549**	3,470	13,000	2,060	**16,500**	**18,500**	33.6
SS03	0.5	08/11/2021	0.324	2.50	2.46	12.9	18.1	299	5,090	810	**5,390**	**6,200**	373
SS04	0.5	08/11/2021	2.90	28.1	28.2	39.2	**98.4**	1,410	6,690	780	**8,100**	**8,880**	69.7
BH01	0.5	08/27/2021	0.0236	1.00	0.104	7.06	8.65	<49.8	<49.8	<49.8	<49.8	<49.8	71.5
BH01	1	08/27/2021	0.0150	0.205	0.0704	0.631	0.921	<49.9	<49.9	<49.9	<49.9	<49.9	7.62
BH02	0.5	08/27/2021	0.0195	0.0570	<0.00200	0.00920	0.0857	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
BH02	1	08/27/2021	0.00992	0.0182	<0.00199	<0.00398	0.0281	<50.0	<50.0	<50.0	<50.0	<50.0	4.99
BH03	0.5	08/27/2021	0.0143	0.0692	0.00466	0.0425	0.131	<49.8	<49.8	<49.8	<49.8	<49.8	<5.01
BH03	1	08/27/2021	0.0106	0.0467	0.00255	0.0235	0.0833	<49.9	<49.9	<49.9	<49.9	<49.9	12.6
BH04	0.5	08/27/2021	0.00403	0.0157	<0.00200	0.0105	0.0302	<49.9	<49.9	<49.9	<49.9	<49.9	17.4
BH04	1	08/27/2021	0.0117	0.0580	0.00279	0.0314	0.104	<49.8	<49.8	<49.8	<49.8	<49.8	25.3
BH05	1	08/27/2021	<0.200	0.245	0.754	3.84	4.84	429	2,360	<249	**2,790**	**2,790**	56.5
BH05	2	08/27/2021	<0.200	<0.200	<0.200	<0.399	<0.399	<50.0	76.8	<50.0	76.8	76.8	70.3
FSO1	1	08/31/2021	<0.00202	0.00488	0.00482	0.0109	0.0206	<49.8	<49.8	<49.8	<49.8	<49.8	57.3

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

ATTACHMENT 1: REFERENCED WELL RECORDS

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: CP 00629 **Subbasin:** CP **Cross Reference:** -

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: J.C. MILLS

x

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	475207	72121	1981-04-24	EXP	EXP	CP 00629	T		3	
get images	475205	72121	1981-03-26	EXP	EXP	CP 00629	T		3	
get images	475198	72121	1980-12-01	EXP	EXP	CP 00629	T		3	

x

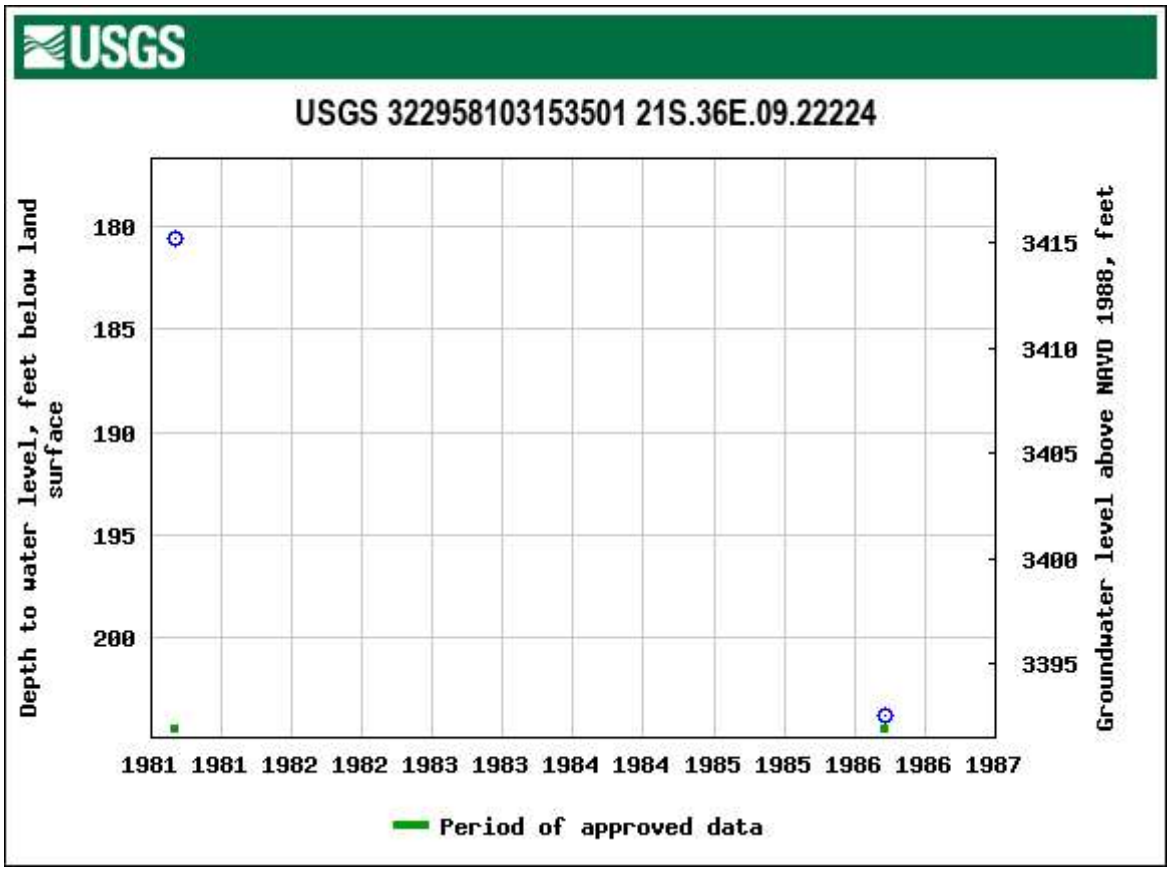
Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 00629			4	4	3	08	23S	34E	641846	3576102*	

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

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.


USGS
USGS 322958103153501 21S.36E.09.22224
Depth to water level, feet below land surface
180
185
190
195
200
Groundwater level above NAVD 1988, feet
3415
3410
3405
3400
3395
1981 1981 1982 1982 1983 1983 1984 1984 1985 1985 1986 1986 1987
Period of approved data

National Water Information System: Web Interface

USGS Water Resources

Data Category: Site Information | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

USGS 322958103153501 21S.36E.09.22224

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

Well Site

DESCRIPTION:

Latitude 32°29'58", Longitude 103°15'35" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 500 feet
Land surface altitude: 3,596 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1981-03-05	1986-03-20	2
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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

---

Accessibility FOIA Privacy Policies and Notices

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

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322958103153501

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2021-07-19 11:08:33 EDT
0.27 0.26 caww01

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
Empire New Mexico, LLC	AJ Adkins Battery #3 Lea County, New Mexico	NAPP2117561837

Photo No.	Date
1	June 23, 2021

Release extent facing northwest. Note the small staining outside of the earthen containment.

Photo No.	Date
2	June 23, 2021

Release extent facing west.

PHOTOGRAPHIC LOG		
Empire New Mexico, LLC	AJ Adkins Battery #3 Lea County, New Mexico	NAPP2117561837

Photo No.	Date
3	August 31, 2021

View of excavation facing northeast

Photo No.	Date
4	September 2, 2021

View of exposed and repaired liner facing west.

PHOTOGRAPHIC LOG		
Empire New Mexico, LLC	AJ Adkins Battery #3 Lea County, New Mexico	NAPP2117561837

Photo No.	Date
5	September 3, 2021

View of backfilled earthen containment and repaired berm facing southwest.

Photo No.	Date
6	September 3, 2021

View of repaired berm and backfilled excavation near FS01 facing northwest.

ATTACHMENT 3: LITHOLOGIC/SOIL SAMPLING LOGS

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: BH01	9/27/2021
	Site Name: AJ Adkins Battery #3	
	RP or Incident Number: NAPP2117561837	
	WSP Job Number: 31403551.000 Task 02.02	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: AB	Method: Hand Auger
Lat/Long: 32.49522, -103.25751	Field Screening: Hach chloride strips, PID	Hole Diameter: 2 inches	Total Depth: 1 feet bgs

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no; BDL- below detection limits

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	BDL	0	N	BH01	0.5	0.5	SC	moist red/brown; no stain; no odor; cohesive, low plasticity
M	BDL	0	N	BH01	1	1	SC	moist red/brown; no stain; no odor; cohesive, low plasticity

TD @ 1 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: BH02	9/27/2021
	Site Name: AJ Adkins Battery #3	
	RP or Incident Number: NAPP2117561837	
	WSP Job Number: 31403551.000 Task 02.02	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: AB	Method: Hand Auger
Lat/Long: 32.49522, -103.25751	Field Screening: Hach chloride strips, PID	Hole Diameter: 2 inches	Total Depth: 1 feet bgs

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no; BDL- below detection limits

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	BDL	0	N	BH01	0.5	0.5	SW	dry, brown, no odor/stain; trace roots
D	BDL	0	N	BH01	1	1	SW	dry, brown, no odor/stain; trace roots

TD @ 1 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: BH03	9/27/2021
	Site Name: AJ Adkins Battery #3	
	RP or Incident Number: NAPP2117561837	
	WSP Job Number: 31403551.000 Task 02.02	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: AB	Method: Hand Auger
Lat/Long: 32.49522, -103.25751	Field Screening: Hach chloride strips, PID	Hole Diameter: 2 inches	Total Depth: 1 feet bgs

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no; BDL- below detection limits

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	BDL	0	N	BH01	0.5	0.5	SP	dry, red/brown, no odor/stain; trace roots
D	BDL	0	N	BH01	1	1	SP	dry, red/brown, no odor/stain; trace roots

TD @ 1 ft bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH04	9/27/2021
Site Name: AJ Adkins Battery #3	
RP or Incident Number: NAPP2117561837	
WSP Job Number: 31403551.000 Task 02.02	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: AB	Method: Hand Auger		
Lat/Long: 32.49522, -103.25751	Field Screening: Hach chloride strips, PID	Hole Diameter: 2 inches	Total Depth: 1 feet bgs

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no; BDL- below detection limits

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	BDL	0	N	BH01	0.5	0.5	SC	moist red/brown; no stain; no odor; cohesive, low plasticity
M	BDL	0	N	BH01	1	1	CCHE	well consolidated; off white; no odor/stain

TD @ 1 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: BH05	9/27/2021
	Site Name: AJ Adkins Battery #3	
	RP or Incident Number: NAPP2117561837	
	WSP Job Number: 31403551.000 Task 02.02	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: AB	Method: Hand Auger
Lat/Long: 32.49522, -103.25751	Field Screening: Hach chloride strips, PID	Hole Diameter: 2 inches	Total Depth: 2 feet bgs

Comments: All chloride field screenings include a 40% correction factor
M-moist; D-dry; Y-yes; N-no; BDL- below detection limits

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	BDL	15,000	Y	BH01	1	1	SP	moist, light brown; no stain; odor
M	BDL	0.6	N	BH01	2	2	SP	moist, light brown; no stain; no odor

TD @ 2 ft bgs

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1098-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: AJ ADKINS BATTERY #3

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
8/19/2021 3:57:59 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Laboratory Job ID: 890-1098-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1098-1
Project/Site: AJ ADKINS BATTERY #3 SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery 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
S1+	Surrogate recovery exceeds control limits, high biased.
U	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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

Job ID: 890-1098-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1098-1

Receipt
The samples were received on 8/12/2021 9:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS02 (890-1098-2). 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.

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

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1098-1
Project/Site: AJ ADKINS BATTERY #3 SDG: Lea County

Client Sample ID: SS01 Lab Sample ID: 890-1098-1

Date Collected: 08/11/21 13:35 **Matrix: Solid**
Date Received: 08/12/21 09:19
Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.09		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:28	100
Toluene	16.5		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:28	100
Ethylbenzene	16.7		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:28	100
m-Xylene & p-Xylene	19.3		0.400		mg/Kg		08/14/21 10:30	08/15/21 18:28	100
o-Xylene	7.46		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:28	100
Xylenes, Total	26.8		0.400		mg/Kg		08/14/21 10:30	08/15/21 18:28	100
Total BTEX	61.1		0.400		mg/Kg		08/14/21 10:30	08/15/21 18:28	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*162*	*S1+*	*70 - 130*	*08/14/21 10:30*	*08/15/21 18:28*	*100*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/14/21 10:30*	*08/15/21 18:28*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	713		249		mg/Kg		08/16/21 08:50	08/16/21 19:13	5
Diesel Range Organics (Over C10-C28)	3490		249		mg/Kg		08/16/21 08:50	08/16/21 19:13	5
Oil Range Organics (Over C28-C36)	516		249		mg/Kg		08/16/21 08:50	08/16/21 19:13	5
Total TPH	4720		249		mg/Kg		08/16/21 08:50	08/16/21 19:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*08/16/21 08:50*	*08/16/21 19:13*	*5*
o-Terphenyl	*94*		*70 - 130*	*08/16/21 08:50*	*08/16/21 19:13*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.5		5.00		mg/Kg			08/18/21 12:05	1

Client Sample ID: SS02 Lab Sample ID: 890-1098-2

Date Collected: 08/11/21 13:37 **Matrix: Solid**
Date Received: 08/12/21 09:19
Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.68		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:49	100
Toluene	176		1.00		mg/Kg		08/14/21 10:30	08/19/21 13:32	500
Ethylbenzene	30.9		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:49	100
m-Xylene & p-Xylene	66.2		0.400		mg/Kg		08/14/21 10:30	08/15/21 18:49	100
o-Xylene	25.9		0.200		mg/Kg		08/14/21 10:30	08/15/21 18:49	100
Xylenes, Total	92.1		0.400		mg/Kg		08/14/21 10:30	08/15/21 18:49	100
Total BTEX	549		2.00		mg/Kg		08/14/21 10:30	08/19/21 13:32	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*08/14/21 10:30*	*08/15/21 18:49*	*100*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/14/21 10:30*	*08/15/21 18:49*	*100*

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

Client Sample ID: SS02

Lab Sample ID: 890-1098-2
Matrix: Solid
Date Collected: 08/11/21 13:37
Date Received: 08/12/21 09:19
Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3470		249		mg/Kg		08/16/21 08:50	08/16/21 19:33	5
Diesel Range Organics (Over C10-C28)	13000		249		mg/Kg		08/16/21 08:50	08/16/21 19:33	5
Oil Range Organics (Over C28-C36)	2060		249		mg/Kg		08/16/21 08:50	08/16/21 19:33	5
Total TPH	18500		249		mg/Kg		08/16/21 08:50	08/16/21 19:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*08/16/21 08:50*	*08/16/21 19:33*	*5*
o-Terphenyl	*280*	*S1+*	*70 - 130*	*08/16/21 08:50*	*08/16/21 19:33*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		5.04		mg/Kg			08/18/21 12:22	1

Client Sample ID: SS03

Lab Sample ID: 890-1098-3
Matrix: Solid
Date Collected: 08/11/21 13:40
Date Received: 08/12/21 09:19
Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.324		0.199		mg/Kg		08/14/21 10:30	08/15/21 19:09	100
Toluene	2.50		0.199		mg/Kg		08/14/21 10:30	08/15/21 19:09	100
Ethylbenzene	2.46		0.199		mg/Kg		08/14/21 10:30	08/15/21 19:09	100
m-Xylene & p-Xylene	8.72		0.398		mg/Kg		08/14/21 10:30	08/15/21 19:09	100
o-Xylene	4.13		0.199		mg/Kg		08/14/21 10:30	08/15/21 19:09	100
Xylenes, Total	12.9		0.398		mg/Kg		08/14/21 10:30	08/15/21 19:09	100
Total BTEX	18.1		0.398		mg/Kg		08/14/21 10:30	08/15/21 19:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*08/14/21 10:30*	*08/15/21 19:09*	*100*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/14/21 10:30*	*08/15/21 19:09*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	299		250		mg/Kg		08/16/21 08:50	08/16/21 19:55	5
Diesel Range Organics (Over C10-C28)	5090		250		mg/Kg		08/16/21 08:50	08/16/21 19:55	5
Oil Range Organics (Over C28-C36)	810		250		mg/Kg		08/16/21 08:50	08/16/21 19:55	5
Total TPH	6200		250		mg/Kg		08/16/21 08:50	08/16/21 19:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/16/21 08:50*	*08/16/21 19:55*	*5*
o-Terphenyl	*129*		*70 - 130*	*08/16/21 08:50*	*08/16/21 19:55*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		4.96		mg/Kg			08/18/21 12:28	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

Client Sample ID: SS04

Date Collected: 08/11/21 13:42
Date Received: 08/12/21 09:19
Sample Depth: - 0.5

Lab Sample ID: 890-1098-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.90		0.198		mg/Kg		08/14/21 10:30	08/15/21 19:30	100
Toluene	28.1		0.198		mg/Kg		08/14/21 10:30	08/15/21 19:30	100
Ethylbenzene	28.2		0.198		mg/Kg		08/14/21 10:30	08/15/21 19:30	100
m-Xylene & p-Xylene	28.8		0.396		mg/Kg		08/14/21 10:30	08/15/21 19:30	100
o-Xylene	10.4		0.198		mg/Kg		08/14/21 10:30	08/15/21 19:30	100
Xylenes, Total	39.2		0.396		mg/Kg		08/14/21 10:30	08/15/21 19:30	100
Total BTEX	98.4		0.396		mg/Kg		08/14/21 10:30	08/15/21 19:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*194*	*S1+*	*70 - 130*	*08/14/21 10:30*	*08/15/21 19:30*	*100*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/14/21 10:30*	*08/15/21 19:30*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1410		250		mg/Kg		08/16/21 08:50	08/16/21 20:16	5
Diesel Range Organics (Over C10-C28)	6690		250		mg/Kg		08/16/21 08:50	08/16/21 20:16	5
Oil Range Organics (Over C28-C36)	780		250		mg/Kg		08/16/21 08:50	08/16/21 20:16	5
Total TPH	8880		250		mg/Kg		08/16/21 08:50	08/16/21 20:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*08/16/21 08:50*	*08/16/21 20:16*	*5*
o-Terphenyl	*128*		*70 - 130*	*08/16/21 08:50*	*08/16/21 20:16*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.7		4.95		mg/Kg			08/18/21 12:44	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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)
880-5071-A-1-H MS	Matrix Spike	120	103
880-5071-A-1-I MSD	Matrix Spike Duplicate	112	104
880-5187-A-21-A MS	Matrix Spike	114	89
880-5187-A-21-B MSD	Matrix Spike Duplicate	138 S1+	79
890-1098-1	SS01	162 S1+	100
890-1098-2	SS02	151 S1+	102
890-1098-3	SS03	146 S1+	108
890-1098-4	SS04	194 S1+	100
LCS 880-6540/1-A	Lab Control Sample	114	99
LCS 880-6685/1-A	Lab Control Sample	103	95
LCSD 880-6540/2-A	Lab Control Sample Dup	110	103
LCSD 880-6685/2-A	Lab Control Sample Dup	117	91
MB 880-6514/5-A	Method Blank	105	94
MB 880-6540/5-A	Method Blank	144 S1+	94
MB 880-6685/5-A	Method Blank	121	72
MB 880-6723/5-A	Method Blank	93	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1098-1	SS01	111	94
890-1098-2	SS02	163 S1+	280 S1+
890-1098-3	SS03	107	129
890-1098-4	SS04	125	128
890-1100-A-81-H MS	Matrix Spike	92	87
890-1100-A-81-I MSD	Matrix Spike Duplicate	91	88
LCS 880-6589/2-A	Lab Control Sample	97	97
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99
MB 880-6589/1-A	Method Blank	107	118

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6514/5-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6514

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:00	08/14/21 21:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/21 10:00	08/14/21 21:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/21 10:00	08/14/21 21:22	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/14/21 10:00	08/14/21 21:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/14/21 10:00*	*08/14/21 21:22*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/14/21 10:00*	*08/14/21 21:22*	*1*

Lab Sample ID: MB 880-6540/5-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6540

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:30	08/15/21 08:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:30	08/15/21 08:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:30	08/15/21 08:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/14/21 10:30	08/15/21 08:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/14/21 10:30	08/15/21 08:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/14/21 10:30	08/15/21 08:12	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/14/21 10:30	08/15/21 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*08/14/21 10:30*	*08/15/21 08:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/14/21 10:30*	*08/15/21 08:12*	*1*

Lab Sample ID: LCS 880-6540/1-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09095		mg/Kg		91	70 - 130		
Toluene			0.100	0.08876		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.09037		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1852		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09364		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-6540/2-A
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6540

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09520		mg/Kg		95	70 - 130	5	35
Toluene			0.100	0.09209		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.09133		mg/Kg		91	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1858		mg/Kg		93	70 - 130	0	35
o-Xylene			0.100	0.09366		mg/Kg		94	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-5071-A-1-H MS
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.08921		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.100	0.08706		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08364		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1726		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.100	0.08778		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-5071-A-1-I MSD
Matrix: Solid
Analysis Batch: 6493

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 6540

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08399		mg/Kg		84	70 - 130	6	35
Toluene	<0.00200	U	0.0996	0.07969		mg/Kg		80	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0996	0.07637		mg/Kg		77	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1571		mg/Kg		79	70 - 130	9	35
o-Xylene	<0.00200	U	0.0996	0.07950		mg/Kg		79	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-6685/5-A
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6685

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/21 15:45	08/19/21 05:12	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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

Lab Sample ID: MB 880-6685/5-A
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6685

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/21 15:45	08/19/21 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/21 15:45	08/19/21 05:12	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/17/21 15:45	08/19/21 05:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*08/17/21 15:45*	*08/19/21 05:12*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*08/17/21 15:45*	*08/19/21 05:12*	*1*

Lab Sample ID: LCS 880-6685/1-A
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6685

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.05597	*-	mg/Kg		56	70 - 130		
Toluene			0.100	0.09595		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1005		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.1748		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.08780		mg/Kg		88	70 - 130		

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

Lab Sample ID: LCSD 880-6685/2-A
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6685

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08161	*1	mg/Kg		82	70 - 130	37	35
Toluene			0.100	0.09143		mg/Kg		91	70 - 130	5	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1934		mg/Kg		97	70 - 130	10	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-5187-A-21-A MS
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1 *- *1	0.100	0.04436	F1	mg/Kg		43	70 - 130		
Toluene	<0.00200	U F1	0.100	0.06508	F1	mg/Kg		63	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.07879		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1460		mg/Kg		72	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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

Lab Sample ID: 880-5187-A-21-A MS
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	<0.00200	U F1	0.100	0.06844	F1	mg/Kg		68	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-5187-A-21-B MSD
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 6685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 *- *1	0.0996	0.06278	F1	mg/Kg		62	70 - 130	34	35
Toluene	<0.00200	U F1	0.0996	0.08571		mg/Kg		84	70 - 130	27	35
Ethylbenzene	<0.00200	U	0.0996	0.09672		mg/Kg		97	70 - 130	20	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1758		mg/Kg		87	70 - 130	19	35
o-Xylene	<0.00200	U F1	0.0996	0.08877		mg/Kg		89	70 - 130	26	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*

Lab Sample ID: MB 880-6723/5-A
Matrix: Solid
Analysis Batch: 6749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6723

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/21 10:40	08/18/21 18:13	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/18/21 10:40	08/18/21 18:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/18/21 10:40*	*08/18/21 18:13*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/18/21 10:40*	*08/18/21 18:13*	*1*

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

Lab Sample ID: MB 880-6589/1-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6589

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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

Lab Sample ID: MB 880-6589/1-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6589

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Total TPH	<50.0	U	50.0		mg/Kg		08/16/21 08:50	08/16/21 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*08/16/21 08:50*	*08/16/21 11:24*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/16/21 08:50*	*08/16/21 11:24*	*1*

Lab Sample ID: LCS 880-6589/2-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	814.9		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	832.6		mg/Kg		83	70 - 130		

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

Lab Sample ID: LCSD 880-6589/3-A
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6589

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	902.4		mg/Kg		90	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	833.9		mg/Kg		83	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 890-1100-A-81-H MS
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1032		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	843.5		mg/Kg		85	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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

Lab Sample ID: 890-1100-A-81-I MSD
Matrix: Solid
Analysis Batch: 6591

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 6589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	981.7		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	844.9		mg/Kg		85	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6602/1-A
Matrix: Solid
Analysis Batch: 6718

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/18/21 10:30	1

Lab Sample ID: LCS 880-6602/2-A
Matrix: Solid
Analysis Batch: 6718

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	254.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-6602/3-A
Matrix: Solid
Analysis Batch: 6718

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	254.6		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-1098-1 MS
Matrix: Solid
Analysis Batch: 6718

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	64.5		250	308.9		mg/Kg		98	90 - 110		

Lab Sample ID: 890-1098-1 MSD
Matrix: Solid
Analysis Batch: 6718

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	64.5		250	309.4		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

GC VOA

Analysis Batch: 6493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-1	SS01	Total/NA	Solid	8021B	6540
890-1098-2	SS02	Total/NA	Solid	8021B	6540
890-1098-3	SS03	Total/NA	Solid	8021B	6540
890-1098-4	SS04	Total/NA	Solid	8021B	6540
MB 880-6514/5-A	Method Blank	Total/NA	Solid	8021B	6514
MB 880-6540/5-A	Method Blank	Total/NA	Solid	8021B	6540
LCS 880-6540/1-A	Lab Control Sample	Total/NA	Solid	8021B	6540
LCSD 880-6540/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6540
880-5071-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	6540
880-5071-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6540

Prep Batch: 6514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6514/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-1	SS01	Total/NA	Solid	5035	
890-1098-2	SS02	Total/NA	Solid	5035	
890-1098-3	SS03	Total/NA	Solid	5035	
890-1098-4	SS04	Total/NA	Solid	5035	
MB 880-6540/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6540/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6540/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5071-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-5071-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 6685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6685/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6685/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6685/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5187-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-5187-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 6723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6723/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 6749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-2	SS02	Total/NA	Solid	8021B	6540
MB 880-6685/5-A	Method Blank	Total/NA	Solid	8021B	6685
MB 880-6723/5-A	Method Blank	Total/NA	Solid	8021B	6723
LCS 880-6685/1-A	Lab Control Sample	Total/NA	Solid	8021B	6685
LCSD 880-6685/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6685
880-5187-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	6685
880-5187-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6685

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

GC Semi VOA

Prep Batch: 6589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-1	SS01	Total/NA	Solid	8015NM Prep	
890-1098-2	SS02	Total/NA	Solid	8015NM Prep	
890-1098-3	SS03	Total/NA	Solid	8015NM Prep	
890-1098-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-1	SS01	Total/NA	Solid	8015B NM	6589
890-1098-2	SS02	Total/NA	Solid	8015B NM	6589
890-1098-3	SS03	Total/NA	Solid	8015B NM	6589
890-1098-4	SS04	Total/NA	Solid	8015B NM	6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015B NM	6589
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6589

HPLC/IC

Leach Batch: 6602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-1	SS01	Soluble	Solid	DI Leach	
890-1098-2	SS02	Soluble	Solid	DI Leach	
890-1098-3	SS03	Soluble	Solid	DI Leach	
890-1098-4	SS04	Soluble	Solid	DI Leach	
MB 880-6602/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6602/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6602/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1098-1 MS	SS01	Soluble	Solid	DI Leach	
890-1098-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 6718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1098-1	SS01	Soluble	Solid	300.0	6602
890-1098-2	SS02	Soluble	Solid	300.0	6602
890-1098-3	SS03	Soluble	Solid	300.0	6602
890-1098-4	SS04	Soluble	Solid	300.0	6602
MB 880-6602/1-A	Method Blank	Soluble	Solid	300.0	6602
LCS 880-6602/2-A	Lab Control Sample	Soluble	Solid	300.0	6602
LCSD 880-6602/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6602
890-1098-1 MS	SS01	Soluble	Solid	300.0	6602
890-1098-1 MSD	SS01	Soluble	Solid	300.0	6602

Lab Chronicle

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

Client Sample ID: SS01

Date Collected: 08/11/21 13:35
Date Received: 08/12/21 09:19

Lab Sample ID: 890-1098-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6540	08/14/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	6493	08/15/21 18:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		5			6591	08/16/21 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 12:05	CH	XEN MID

Client Sample ID: SS02

Date Collected: 08/11/21 13:37
Date Received: 08/12/21 09:19

Lab Sample ID: 890-1098-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6540	08/14/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	6749	08/19/21 13:32	KL	XEN MID
Total/NA	Prep	5035			5.00 g	5 mL	6540	08/14/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	6493	08/15/21 18:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		5			6591	08/16/21 19:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 12:22	CH	XEN MID

Client Sample ID: SS03

Date Collected: 08/11/21 13:40
Date Received: 08/12/21 09:19

Lab Sample ID: 890-1098-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6540	08/14/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	6493	08/15/21 19:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		5			6591	08/16/21 19:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 12:28	CH	XEN MID

Client Sample ID: SS04

Date Collected: 08/11/21 13:42
Date Received: 08/12/21 09:19

Lab Sample ID: 890-1098-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6540	08/14/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	6493	08/15/21 19:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		5			6591	08/16/21 20:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6602	08/16/21 11:10	CH	XEN MID
Soluble	Analysis	300.0		1			6718	08/18/21 12:44	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

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. Job ID: 890-1098-1
Project/Site: AJ ADKINS BATTERY #3 SDG: Lea County

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	06-30-22

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

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

Method Summary

Client: WSP USA Inc. Job ID: 890-1098-1
Project/Site: AJ ADKINS BATTERY #3 SDG: Lea County

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: AJ ADKINS BATTERY #3

Job ID: 890-1098-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1098-1	SS01	Solid	08/11/21 13:35	08/12/21 09:19	- 0.5
890-1098-2	SS02	Solid	08/11/21 13:37	08/12/21 09:19	- 0.5
890-1098-3	SS03	Solid	08/11/21 13:40	08/12/21 09:19	- 0.5
890-1098-4	SS04	Solid	08/11/21 13:42	08/12/21 09:19	- 0.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	TACOMA MORRISSEY	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	
Address:	3300 N A St	Address:	
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	
Phone:	432-704-5178	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	AJ ADKINS BATTERY #3	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	LEA COUNTY	Due Date:	
Sampler's Name:	ANNA BYERS	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	~~NM-007~~	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH (EPA 8015 Mod)	BTEX (EPA 8021B)	Chloride (EPA 300.0)	Sample Comments
SS01	S	8/11/21	1335	0.5'	Grab	1	X	X	X	
SS02	S	8/11/21	1337	0.5'		1	X	X	X	
SS03	S	8/11/21	1340	0.5'		1	X	X	X	
SS04	S	8/11/21	1342	0.5'		1	X	X	X	

890-1098 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers		8.12.2109	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020 2

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Released to Imaging: 10/5/2021 9:11:32 AM

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-348 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1098-1
Address: 1211 W Florida Ave,	Due Date Requested: 8/18/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: AJ ADKINS BATTERY #3	Project #: 89000048			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note.
			Preservation Code:								
SS01 (890-1098-1)	8/11/21	13 35 Mountain		Solid			X	X	X	1	
SS02 (890-1098-2)	8/11/21	13 37 Mountain		Solid			X	X	X	1	
SS03 (890-1098-3)	8/11/21	13 40 Mountain		Solid			X	X	X	1	
SS04 (890-1098-4)	8/11/21	13 42 Mountain		Solid			X	X	X	1	

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

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	N. Dea	8/12/21 1:10			8-13-21 11:20 a.m.	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

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Released to Imaging: 10/5/2021 9:11:32 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1098-1
SDG Number: Lea County

Login Number: 1098
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1098-1
SDG Number: Lea County

Login Number: 1098
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/13/21 11:22 AM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1188-1
Client Project/Site: AJ Adkins Battery #3

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

Attn: Tacoma Morrissey

JKRAMER

Authorized for release by:
8/31/2021 6:27:56 PM

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

LINKS

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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.

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Laboratory Job ID: 890-1188-1

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1188-1
Project/Site: AJ Adkins Battery #3

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
U	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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-1188-1
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1188-1

Receipt
The samples were received on 8/27/2021 4:20 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 1.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7288 and analytical batch 880-7310 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: BH05 (890-1188-1) at 100.0. Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-1187-A-1-G). Evidence of matrix interferences is not obvious.

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

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.

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1188-1
Project/Site: AJ Adkins Battery #3

Client Sample ID: BH05 — Lab Sample ID: 890-1188-1

Date Collected: 08/27/21 12:35
Date Received: 08/27/21 16:20
Sample Depth: 1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.200	U	0.200		mg/Kg		08/31/21 08:55	08/31/21 14:35	100
Toluene	**0.245**		0.200		mg/Kg		08/31/21 08:55	08/31/21 14:35	100
Ethylbenzene	**0.754**		0.200		mg/Kg		08/31/21 08:55	08/31/21 14:35	100
m-Xylene & p-Xylene	**2.76**		0.401		mg/Kg		08/31/21 08:55	08/31/21 14:35	100
o-Xylene	**1.08**		0.200		mg/Kg		08/31/21 08:55	08/31/21 14:35	100
Xylenes, Total	**3.84**		0.401		mg/Kg		08/31/21 08:55	08/31/21 14:35	100
Total BTEX	**4.84**		0.401		mg/Kg		08/31/21 08:55	08/31/21 14:35	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*08/31/21 08:55*	*08/31/21 14:35*	*100*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/31/21 08:55*	*08/31/21 14:35*	*100*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**429**		249		mg/Kg		08/31/21 08:27	08/31/21 14:32	5
Diesel Range Organics (Over C10-C28)	**2360**		249		mg/Kg		08/31/21 08:27	08/31/21 14:32	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		08/31/21 08:27	08/31/21 14:32	5
Total TPH	**2790**		249		mg/Kg		08/31/21 08:27	08/31/21 14:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/31/21 08:27*	*08/31/21 14:32*	*5*
o-Terphenyl	*100*		*70 - 130*	*08/31/21 08:27*	*08/31/21 14:32*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.5**		5.01		mg/Kg			08/31/21 16:15	1

Client Sample ID: BH05 — Lab Sample ID: 890-1188-2

Date Collected: 08/27/21 12:37
Date Received: 08/27/21 16:20
Sample Depth: 2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.200	U	0.200		mg/Kg		08/31/21 08:55	08/31/21 14:55	100
Toluene	<0.200	U	0.200		mg/Kg		08/31/21 08:55	08/31/21 14:55	100
Ethylbenzene	<0.200	U	0.200		mg/Kg		08/31/21 08:55	08/31/21 14:55	100
m-Xylene & p-Xylene	<0.399	U	0.399		mg/Kg		08/31/21 08:55	08/31/21 14:55	100
o-Xylene	<0.200	U	0.200		mg/Kg		08/31/21 08:55	08/31/21 14:55	100
Xylenes, Total	<0.399	U	0.399		mg/Kg		08/31/21 08:55	08/31/21 14:55	100
Total BTEX	<0.399	U	0.399		mg/Kg		08/31/21 08:55	08/31/21 14:55	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*08/31/21 08:55*	*08/31/21 14:55*	*100*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/31/21 08:55*	*08/31/21 14:55*	*100*

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

Client Sample ID: BH05

Date Collected: 08/27/21 12:37
Date Received: 08/27/21 16:20
Sample Depth: 2

Lab Sample ID: 890-1188-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/31/21 08:27	08/31/21 14:54	1
Diesel Range Organics (Over C10-C28)	**76.8**		50.0		mg/Kg		08/31/21 08:27	08/31/21 14:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/31/21 08:27	08/31/21 14:54	1
Total TPH	**76.8**		50.0		mg/Kg		08/31/21 08:27	08/31/21 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*08/31/21 08:27*	*08/31/21 14:54*	*1*
o-Terphenyl	*120*		*70 - 130*	*08/31/21 08:27*	*08/31/21 14:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.3**		5.05		mg/Kg			08/31/21 16:20	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1187-A-1-E MS	Matrix Spike	182 S1+	93
890-1187-A-1-F MSD	Matrix Spike Duplicate	157 S1+	103
890-1188-1	BH05	122	105
890-1188-2	BH05	127	108
LCS 880-7288/1-A	Lab Control Sample	107	109
LCSD 880-7288/2-A	Lab Control Sample Dup	109	108
MB 880-7288/5-A	Method Blank	105	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-5593-A-21-E MS	Matrix Spike	84	80
880-5593-A-21-F MSD	Matrix Spike Duplicate	96	90
890-1188-1	BH05	104	100
890-1188-2	BH05	116	120
LCS 880-7269/2-A	Lab Control Sample	103	101
LCSD 880-7269/3-A	Lab Control Sample Dup	97	93
MB 880-7269/1-A	Method Blank	88	95

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7288/5-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7288

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/31/21 08:55*	*08/31/21 12:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/31/21 08:55*	*08/31/21 12:45*	*1*

Lab Sample ID: LCS 880-7288/1-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08465		mg/Kg		85	70 - 130		
Toluene			0.100	0.08005		mg/Kg		80	70 - 130		
Ethylbenzene			0.100	0.07981		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1630		mg/Kg		82	70 - 130		
o-Xylene			0.100	0.08289		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-7288/2-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08632		mg/Kg		86	70 - 130	2	35
Toluene			0.100	0.08065		mg/Kg		81	70 - 130	1	35
Ethylbenzene			0.100	0.08073		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1661		mg/Kg		83	70 - 130	2	35
o-Xylene			0.100	0.08411		mg/Kg		84	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-1187-A-1-E MS
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U F1	0.100	0.05518	F1	mg/Kg		55	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

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

Lab Sample ID: 890-1187-A-1-E MS
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00202	U F1	0.100	0.04081	F1	mg/Kg		40	70 - 130
Ethylbenzene	0.0105	F1	0.100	0.04669	F1	mg/Kg		36	70 - 130
m-Xylene & p-Xylene	0.0247	F1	0.200	0.1601	F1	mg/Kg		68	70 - 130
o-Xylene	0.0159	F1	0.100	0.08001	F1	mg/Kg		64	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-1187-A-1-F MSD
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.05962	F1	mg/Kg		59	70 - 130	8	35
Toluene	<0.00202	U F1	0.100	0.04353	F1	mg/Kg		43	70 - 130	6	35
Ethylbenzene	0.0105	F1	0.100	0.05419	F1	mg/Kg		44	70 - 130	15	35
m-Xylene & p-Xylene	0.0247	F1	0.201	0.1898		mg/Kg		82	70 - 130	17	35
o-Xylene	0.0159	F1	0.100	0.09155		mg/Kg		75	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-7269/1-A
Matrix: Solid
Analysis Batch: 7281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7269

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/31/21 08:27	08/31/21 10:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/31/21 08:27	08/31/21 10:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/31/21 08:27	08/31/21 10:14	1
Total TPH	<50.0	U	50.0	mg/Kg		08/31/21 08:27	08/31/21 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*08/31/21 08:27*	*08/31/21 10:14*	*1*
o-Terphenyl	*95*		*70 - 130*	*08/31/21 08:27*	*08/31/21 10:14*	*1*

Lab Sample ID: LCS 880-7269/2-A
Matrix: Solid
Analysis Batch: 7281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7269

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

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

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

Lab Sample ID: LCS 880-7269/2-A
Matrix: Solid
Analysis Batch: 7281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7269

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	947.9		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-7269/3-A
Matrix: Solid
Analysis Batch: 7281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7269

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	933.1		mg/Kg		93	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	887.2		mg/Kg		89	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 880-5593-A-21-E MS
Matrix: Solid
Analysis Batch: 7281

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7269

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 880-5593-A-21-F MSD
Matrix: Solid
Analysis Batch: 7281

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7269

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7257/1-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/21 15:44	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-7257/2-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	264.7		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-7257/3-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	264.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-1187-A-1-C MS
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	98.8		249	366.4		mg/Kg		107	90 - 110		

Lab Sample ID: 890-1187-A-1-D MSD
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.8		249	363.7		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

GC VOA

Prep Batch: 7288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1188-1	BH05	Total/NA	Solid	5035	
890-1188-2	BH05	Total/NA	Solid	5035	
MB 880-7288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1187-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1187-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1188-1	BH05	Total/NA	Solid	8021B	7288
890-1188-2	BH05	Total/NA	Solid	8021B	7288
MB 880-7288/5-A	Method Blank	Total/NA	Solid	8021B	7288
LCS 880-7288/1-A	Lab Control Sample	Total/NA	Solid	8021B	7288
LCSD 880-7288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7288
890-1187-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	7288
890-1187-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7288

GC Semi VOA

Prep Batch: 7269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1188-1	BH05	Total/NA	Solid	8015NM Prep	
890-1188-2	BH05	Total/NA	Solid	8015NM Prep	
MB 880-7269/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7269/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7269/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5593-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5593-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1188-1	BH05	Total/NA	Solid	8015B NM	7269
890-1188-2	BH05	Total/NA	Solid	8015B NM	7269
MB 880-7269/1-A	Method Blank	Total/NA	Solid	8015B NM	7269
LCS 880-7269/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7269
LCSD 880-7269/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7269
880-5593-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7269
880-5593-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7269

HPLC/IC

Leach Batch: 7257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1188-1	BH05	Soluble	Solid	DI Leach	
890-1188-2	BH05	Soluble	Solid	DI Leach	
MB 880-7257/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7257/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7257/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1187-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1187-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

HPLC/IC

Analysis Batch: 7344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1188-1	BH05	Soluble	Solid	300.0	7257
890-1188-2	BH05	Soluble	Solid	300.0	7257
MB 880-7257/1-A	Method Blank	Soluble	Solid	300.0	7257
LCS 880-7257/2-A	Lab Control Sample	Soluble	Solid	300.0	7257
LCSD 880-7257/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7257
890-1187-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	7257
890-1187-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7257

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1188-1
Project/Site: AJ Adkins Battery #3

Client Sample ID: BH05 Lab Sample ID: 890-1188-1

Date Collected: 08/27/21 12:35 **Matrix: Solid**
Date Received: 08/27/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	7310	08/31/21 14:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7269	08/31/21 08:27	DM	XEN MID
Total/NA	Analysis	8015B NM		5			7281	08/31/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 16:15	SC	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1188-2

Date Collected: 08/27/21 12:37 **Matrix: Solid**
Date Received: 08/27/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	7310	08/31/21 14:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7269	08/31/21 08:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7281	08/31/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 16:20	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. Job ID: 890-1188-1
Project/Site: AJ Adkins Battery #3

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	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1188-1

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: AJ Adkins Battery #3

Job ID: 890-1188-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1188-1	BH05	Solid	08/27/21 12:35	08/27/21 16:20	1
890-1188-2	BH05	Solid	08/27/21 12:37	08/27/21 16:20	2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	
Address:	3300 N A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	337-257-8307	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	AJ Adkins Battery #3	Turn Around	☐ Routine ☒ Rush
Project Number:		Due Date:	24 TAT
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Anna Byers		
PO #:			

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TMH-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.6
Total Containers:		Corrected Temperature:	1.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH (EPA 8015 Mod)	BTEX (EPA 8021B)	Chloride (EPA 300.0)	Sample Comments
BH25	S	8/27/21	1235	1'	Grab	1		X	X	X	NAPP2117561837
BH25	S	8/27/21	1237	2'	↓	1		X	X	X	

890-1188 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers		8.27.21 1620			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

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Received by OCD: 9/8/2021 3:13:05 PM

Released to Imaging: 10/5/2021 9:11:32 AM

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-375 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1188-1
Address: 1211 W Florida Ave	Due Date Requested: 8/31/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: AJAdkins Battery #3	Project #: 89000048			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
BH05 (890-1188-1)	8/27/21	12 35 Mountain		Solid			X	X	X	1	
BH05 (890-1188-2)	8/27/21	12 37 Mountain		Solid			X	X	X	1	

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.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
1	Cue Cuff 8.30.21				8-31-21 1000 M	
2	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

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Received by OCD: 9/8/2021 3:13:05 PM
8/31/2021
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Released to Imaging: 10/5/2021 9:11:32 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1188-1
SDG Number:

Login Number: 1188
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1188-1
SDG Number:

Login Number: 1188
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/31/21 01:20 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 / 2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1189-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: AJ Adkins Battery #3

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
9/2/2021 12:22:26 PM

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

LINKS

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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.

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Laboratory Job ID: 890-1189-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1189-1
Project/Site: AJ Adkins Battery #3 SDG: Lea County

Qualifiers

GC VOA

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

GC Semi VOA

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

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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

Job ID: 890-1189-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1189-1

Receipt
The samples were received on 8/27/2021 4:20 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 1.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7288 and analytical batch 880-7310 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7363 and analytical batch 880-7359 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

Client Sample ID: BH02

Lab Sample ID: 890-1189-1
Matrix: Solid
Date Collected: 08/27/21 10:25
Date Received: 08/27/21 16:20
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0195**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 15:36	1
Toluene	**0.0570**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 15:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 15:36	1
m-Xylene & p-Xylene	**0.00920**		0.00400		mg/Kg		08/31/21 08:55	08/31/21 15:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 15:36	1
Xylenes, Total	**0.00920**		0.00400		mg/Kg		08/31/21 08:55	08/31/21 15:36	1
Total BTEX	**0.0857**		0.00400		mg/Kg		08/31/21 08:55	08/31/21 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/31/21 08:55*	*08/31/21 15:36*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/31/21 08:55*	*08/31/21 15:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/01/21 08:19*	*09/01/21 18:03*	*1*
o-Terphenyl	*83*		*70 - 130*	*09/01/21 08:19*	*09/01/21 18:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/31/21 16:26	1

Client Sample ID: BH02

Lab Sample ID: 890-1189-2
Matrix: Solid
Date Collected: 08/27/21 10:30
Date Received: 08/27/21 16:20
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00992**		0.00199		mg/Kg		08/31/21 08:55	08/31/21 15:57	1
Toluene	**0.0182**		0.00199		mg/Kg		08/31/21 08:55	08/31/21 15:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/31/21 08:55	08/31/21 15:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/31/21 08:55	08/31/21 15:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/31/21 08:55	08/31/21 15:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/31/21 08:55	08/31/21 15:57	1
Total BTEX	**0.0281**		0.00398		mg/Kg		08/31/21 08:55	08/31/21 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/31/21 08:55*	*08/31/21 15:57*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/31/21 08:55*	*08/31/21 15:57*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1189-1
Project/Site: AJ Adkins Battery #3 SDG: Lea County

Client Sample ID: BH02 **Lab Sample ID: 890-1189-2**
Date Collected: 08/27/21 10:30 **Matrix: Solid**
Date Received: 08/27/21 16:20
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/02/21 08:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/02/21 08:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/02/21 08:59	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/02/21 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*13*	*S1-*	*70 - 130*	*09/01/21 08:19*	*09/01/21 18:24*	*1*
1-Chlorooctane	*89*		*70 - 130*	*09/01/21 08:19*	*09/02/21 08:59*	*1*
o-Terphenyl	*13*	*S1-*	*70 - 130*	*09/01/21 08:19*	*09/01/21 18:24*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/01/21 08:19*	*09/02/21 08:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.99**		4.95		mg/Kg			08/31/21 16:31	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1187-A-1-E MS	Matrix Spike	182 S1+	93
890-1187-A-1-F MSD	Matrix Spike Duplicate	157 S1+	103
890-1189-1	BH02	103	114
890-1189-2	BH02	115	111
LCS 880-7288/1-A	Lab Control Sample	107	109
LCSD 880-7288/2-A	Lab Control Sample Dup	109	108
MB 880-7288/5-A	Method Blank	105	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1189-1	BH02	81	83
890-1189-2	BH02	13 S1-	13 S1-
890-1189-2	BH02	89	104
890-1190-A-1-F MS	Matrix Spike	89	69 S1-
890-1190-A-1-G MSD	Matrix Spike Duplicate	91	72
LCS 880-7363/2-A	Lab Control Sample	126	141 S1+
LCSD 880-7363/3-A	Lab Control Sample Dup	87	96
MB 880-7363/1-A	Method Blank	67 S1-	67 S1-

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7288/5-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7288

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/31/21 08:55*	*08/31/21 12:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/31/21 08:55*	*08/31/21 12:45*	*1*

Lab Sample ID: LCS 880-7288/1-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08465		mg/Kg		85	70 - 130		
Toluene			0.100	0.08005		mg/Kg		80	70 - 130		
Ethylbenzene			0.100	0.07981		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1630		mg/Kg		82	70 - 130		
o-Xylene			0.100	0.08289		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-7288/2-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08632		mg/Kg		86	70 - 130	2	35
Toluene			0.100	0.08065		mg/Kg		81	70 - 130	1	35
Ethylbenzene			0.100	0.08073		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1661		mg/Kg		83	70 - 130	2	35
o-Xylene			0.100	0.08411		mg/Kg		84	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-1187-A-1-E MS
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U F1	0.100	0.05518	F1	mg/Kg		55	70 - 130		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

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

Lab Sample ID: 890-1187-A-1-E MS
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00202	U F1	0.100	0.04081	F1	mg/Kg		40	70 - 130
Ethylbenzene	0.0105	F1	0.100	0.04669	F1	mg/Kg		36	70 - 130
m-Xylene & p-Xylene	0.0247	F1	0.200	0.1601	F1	mg/Kg		68	70 - 130
o-Xylene	0.0159	F1	0.100	0.08001	F1	mg/Kg		64	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-1187-A-1-F MSD
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.05962	F1	mg/Kg		59	70 - 130	8	35
Toluene	<0.00202	U F1	0.100	0.04353	F1	mg/Kg		43	70 - 130	6	35
Ethylbenzene	0.0105	F1	0.100	0.05419	F1	mg/Kg		44	70 - 130	15	35
m-Xylene & p-Xylene	0.0247	F1	0.201	0.1898		mg/Kg		82	70 - 130	17	35
o-Xylene	0.0159	F1	0.100	0.09155		mg/Kg		75	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-7363/1-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7363

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/01/21 08:19	09/01/21 11:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Total TPH	<50.0	U	50.0	mg/Kg		09/01/21 08:19	09/01/21 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*09/01/21 08:19*	*09/01/21 11:41*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*09/01/21 08:19*	*09/01/21 11:41*	*1*

Lab Sample ID: LCS 880-7363/2-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	853.0		mg/Kg		85	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

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

Lab Sample ID: LCS 880-7363/2-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7363

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	1213		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*141*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-7363/3-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7363

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	864.0		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-1190-A-1-F MS
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	3660	F1	995	5638	F1	mg/Kg		199	70 - 130		
Diesel Range Organics (Over C10-C28)	448		995	1239		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: 890-1190-A-1-G MSD
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	3660	F1	998	5715	F1	mg/Kg		206	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	448		998	1276		mg/Kg		83	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*72*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7257/1-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/21 15:44	1

Lab Sample ID: LCS 880-7257/2-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	264.7		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-7257/3-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	264.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-1187-A-1-C MS
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	98.8		249	366.4		mg/Kg		107	90 - 110		

Lab Sample ID: 890-1187-A-1-D MSD
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.8		249	363.7		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

GC VOA

Prep Batch: 7288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1189-1	BH02	Total/NA	Solid	5035	
890-1189-2	BH02	Total/NA	Solid	5035	
MB 880-7288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1187-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1187-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1189-1	BH02	Total/NA	Solid	8021B	7288
890-1189-2	BH02	Total/NA	Solid	8021B	7288
MB 880-7288/5-A	Method Blank	Total/NA	Solid	8021B	7288
LCS 880-7288/1-A	Lab Control Sample	Total/NA	Solid	8021B	7288
LCSD 880-7288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7288
890-1187-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	7288
890-1187-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7288

GC Semi VOA

Analysis Batch: 7359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1189-1	BH02	Total/NA	Solid	8015B NM	7363
890-1189-2	BH02	Total/NA	Solid	8015B NM	7363
890-1189-2	BH02	Total/NA	Solid	8015B NM	7363
MB 880-7363/1-A	Method Blank	Total/NA	Solid	8015B NM	7363
LCS 880-7363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7363
LCSD 880-7363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7363
890-1190-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	7363
890-1190-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7363

Prep Batch: 7363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1189-1	BH02	Total/NA	Solid	8015NM Prep	
890-1189-2	BH02	Total/NA	Solid	8015NM Prep	
MB 880-7363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1190-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1190-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1189-1	BH02	Soluble	Solid	DI Leach	
890-1189-2	BH02	Soluble	Solid	DI Leach	
MB 880-7257/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7257/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7257/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1187-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1187-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

HPLC/IC

Analysis Batch: 7344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1189-1	BH02	Soluble	Solid	300.0	7257
890-1189-2	BH02	Soluble	Solid	300.0	7257
MB 880-7257/1-A	Method Blank	Soluble	Solid	300.0	7257
LCS 880-7257/2-A	Lab Control Sample	Soluble	Solid	300.0	7257
LCSD 880-7257/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7257
890-1187-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	7257
890-1187-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7257

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1189-1
Project/Site: AJ Adkins Battery #3 SDG: Lea County

Client Sample ID: BH02 Lab Sample ID: 890-1189-1

Date Collected: 08/27/21 10:25 **Matrix: Solid**
Date Received: 08/27/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 15:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 16:26	SC	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1189-2

Date Collected: 08/27/21 10:30 **Matrix: Solid**
Date Received: 08/27/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 15:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 18:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/02/21 08:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 16:31	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. Job ID: 890-1189-1
Project/Site: AJ Adkins Battery #3 SDG: Lea County

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	06-30-22

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

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

Method Summary

Client: WSP USA Inc. Job ID: 890-1189-1
Project/Site: AJ Adkins Battery #3 SDG: Lea County

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: AJ Adkins Battery #3

Job ID: 890-1189-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1189-1	BH02	Solid	08/27/21 10:25	08/27/21 16:20	0.5
890-1189-2	BH02	Solid	08/27/21 10:30	08/27/21 16:20	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	
Address:	3300 N A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	337-257-8307	Email:	anna.byers@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	MJ Adkins Battery #3	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Anna Byers		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	T-PM407	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.6	
Total Containers:	2	Corrected Temperature:	1.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX (EPA 8021B)	TPH (EPA 8015 Mod)	Chloride (EPA 300.0)	Sample Comments
BH#2	S	8/27/21	1025	0.5'	Grab	1		X	X	X	NAPP2117561837
BH#2	S	8/27/21	1035	1'	↓	1		X	X	X	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-1189 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers	N. Ortiz	8/27/21 4:20			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 9/8/2021 3:13:05 PM

Released to Imaging: 10/5/2021 9:11:32 AM

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-375.1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1189-1
Address: 1211 W Florida Ave	Due Date Requested: 8/30/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: AJAdkins Battery #3	Project #: 89000048			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note
			Preservation Code:								
BH02 (890-1189-1)	8/27/21	10 25 Mountain		Solid			X	X	X	1	
BH02 (890-1189-2)	8/27/21	10 30 Mountain		Solid			X	X	X	1	

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 compliance to Eurofins Xenco LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Clue Culp 8.30.21			Received by:	8-31-21 1100 PM	
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.2 / 2.7

Ver 06/08/2021

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Received by OCD: 9/8/2021 3:13:05 PM
9/2/2021
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Released to Imaging: 10/5/2021 9:11:32 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1189-1
SDG Number: Lea County

Login Number: 1189
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1189-1
SDG Number: Lea County

Login Number: 1189
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/31/21 01:20 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 / 2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1191-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: AJ ADKINS Battery #3

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
9/3/2021 3:02:49 PM

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

LINKS

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Have a Question? Ask The Expert

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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.

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Laboratory Job ID: 890-1191-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Qualifiers

GC VOA

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

GC Semi VOA

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

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
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Job ID: 890-1191-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1191-1

Receipt
The samples were received on 8/27/2021 4:20 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 1.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7288 and analytical batch 880-7310 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH01 (890-1191-1). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7363 and analytical batch 880-7359 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Client Sample ID: BH01

Date Collected: 08/27/21 10:00
Date Received: 08/27/21 16:20
Sample Depth: 0.5

Lab Sample ID: 890-1191-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0236		0.00199		mg/Kg		08/31/21 08:55	08/31/21 18:41	1
Toluene	1.00		0.101		mg/Kg		09/01/21 09:00	09/01/21 16:23	50
Ethylbenzene	0.104		0.00199		mg/Kg		08/31/21 08:55	08/31/21 18:41	1
m-Xylene & p-Xylene	5.12		0.202		mg/Kg		09/01/21 09:00	09/01/21 16:23	50
o-Xylene	0.188		0.00199		mg/Kg		08/31/21 08:55	08/31/21 18:41	1
Xylenes, Total	7.06		0.202		mg/Kg		09/01/21 09:00	09/01/21 16:23	50
Total BTEX	8.65		0.202		mg/Kg		09/01/21 09:00	09/01/21 16:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*213*	*S1+*	*70 - 130*	*08/31/21 08:55*	*08/31/21 18:41*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/31/21 08:55*	*08/31/21 18:41*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 14:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 14:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 14:51	1
Total TPH	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*09/01/21 08:19*	*09/01/21 14:51*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*09/01/21 08:19*	*09/01/21 14:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		5.00		mg/Kg			08/31/21 18:11	1

Client Sample ID: BH01

Date Collected: 08/27/21 10:05
Date Received: 08/27/21 16:20
Sample Depth: 1

Lab Sample ID: 890-1191-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0150		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:01	1
Toluene	0.205		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:01	1
Ethylbenzene	0.0704		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:01	1
m-Xylene & p-Xylene	0.529		0.00401		mg/Kg		08/31/21 08:55	08/31/21 19:01	1
o-Xylene	0.102		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:01	1
Xylenes, Total	0.631		0.00401		mg/Kg		08/31/21 08:55	08/31/21 19:01	1
Total BTEX	0.921		0.00401		mg/Kg		08/31/21 08:55	08/31/21 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/31/21 08:55*	*08/31/21 19:01*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*08/31/21 08:55*	*08/31/21 19:01*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Client Sample ID: BH01

Date Collected: 08/27/21 10:05
Date Received: 08/27/21 16:20
Sample Depth: 1

Lab Sample ID: 890-1191-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:12	1
Total TPH	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*09/01/21 08:19*	*09/01/21 15:12*	*1*
o-Terphenyl	*73*		*70 - 130*	*09/01/21 08:19*	*09/01/21 15:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.62**		4.95		mg/Kg			08/31/21 18:17	1

Client Sample ID: BH03

Date Collected: 08/27/21 10:45
Date Received: 08/27/21 16:20
Sample Depth: 0.5

Lab Sample ID: 890-1191-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0143**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:22	1
Toluene	**0.0692**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:22	1
Ethylbenzene	**0.00466**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:22	1
m-Xylene & p-Xylene	**0.0358**		0.00401		mg/Kg		08/31/21 08:55	08/31/21 19:22	1
o-Xylene	**0.00667**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:22	1
Xylenes, Total	**0.0425**		0.00401		mg/Kg		08/31/21 08:55	08/31/21 19:22	1
Total BTEX	**0.131**		0.00401		mg/Kg		08/31/21 08:55	08/31/21 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/31/21 08:55*	*08/31/21 19:22*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/31/21 08:55*	*08/31/21 19:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 15:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 15:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 15:34	1
Total TPH	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*09/01/21 08:19*	*09/01/21 15:34*	*1*
o-Terphenyl	*70*		*70 - 130*	*09/01/21 08:19*	*09/01/21 15:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/31/21 18:22	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Client Sample ID: BH03

Date Collected: 08/27/21 10:50
Date Received: 08/27/21 16:20
Sample Depth: 1

Lab Sample ID: 890-1191-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0106**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:42	1
Toluene	**0.0467**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:42	1
Ethylbenzene	**0.00255**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:42	1
m-Xylene & p-Xylene	**0.0200**		0.00399		mg/Kg		08/31/21 08:55	08/31/21 19:42	1
o-Xylene	**0.00346**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 19:42	1
Xylenes, Total	**0.0235**		0.00399		mg/Kg		08/31/21 08:55	08/31/21 19:42	1
Total BTEX	**0.0833**		0.00399		mg/Kg		08/31/21 08:55	08/31/21 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/31/21 08:55*	*08/31/21 19:42*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/31/21 08:55*	*08/31/21 19:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:55	1
Total TPH	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*09/01/21 08:19*	*09/01/21 15:55*	*1*
o-Terphenyl	*77*		*70 - 130*	*09/01/21 08:19*	*09/01/21 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.6**		4.95		mg/Kg			08/31/21 22:38	1

Client Sample ID: BH04

Date Collected: 08/27/21 11:15
Date Received: 08/27/21 16:20
Sample Depth: 0.5

Lab Sample ID: 890-1191-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00403**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 20:03	1
Toluene	**0.0157**		0.00200		mg/Kg		08/31/21 08:55	08/31/21 20:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 20:03	1
m-Xylene & p-Xylene	**0.0105**		0.00400		mg/Kg		08/31/21 08:55	08/31/21 20:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 20:03	1
Xylenes, Total	**0.0105**		0.00400		mg/Kg		08/31/21 08:55	08/31/21 20:03	1
Total BTEX	**0.0302**		0.00400		mg/Kg		08/31/21 08:55	08/31/21 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/31/21 08:55*	*08/31/21 20:03*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/31/21 08:55*	*08/31/21 20:03*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Client Sample ID: BH04
Date Collected: 08/27/21 11:15
Date Received: 08/27/21 16:20
Sample Depth: 0.5

Lab Sample ID: 890-1191-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 16:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 16:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 16:17	1
Total TPH	<49.9	U	49.9		mg/Kg		09/01/21 08:19	09/01/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/01/21 08:19*	*09/01/21 16:17*	*1*
o-Terphenyl	*78*		*70 - 130*	*09/01/21 08:19*	*09/01/21 16:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.4**		5.05		mg/Kg			08/31/21 22:55	1

Client Sample ID: BH04
Date Collected: 08/27/21 11:20
Date Received: 08/27/21 16:20
Sample Depth: 1

Lab Sample ID: 890-1191-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0117**		0.00199		mg/Kg		08/31/21 08:55	08/31/21 20:23	1
Toluene	**0.0580**		0.00199		mg/Kg		08/31/21 08:55	08/31/21 20:23	1
Ethylbenzene	**0.00279**		0.00199		mg/Kg		08/31/21 08:55	08/31/21 20:23	1
m-Xylene & p-Xylene	**0.0268**		0.00398		mg/Kg		08/31/21 08:55	08/31/21 20:23	1
o-Xylene	**0.00456**		0.00199		mg/Kg		08/31/21 08:55	08/31/21 20:23	1
Xylenes, Total	**0.0314**		0.00398		mg/Kg		08/31/21 08:55	08/31/21 20:23	1
Total BTEX	**0.104**		0.00398		mg/Kg		08/31/21 08:55	08/31/21 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/31/21 08:55*	*08/31/21 20:23*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/31/21 08:55*	*08/31/21 20:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 16:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 16:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 16:38	1
Total TPH	<49.8	U	49.8		mg/Kg		09/01/21 08:19	09/01/21 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*09/01/21 08:19*	*09/01/21 16:38*	*1*
o-Terphenyl	*79*		*70 - 130*	*09/01/21 08:19*	*09/01/21 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.3**		4.97		mg/Kg			08/31/21 23:01	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

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)
880-5629-A-1-D MS	Matrix Spike	96	96
880-5629-A-1-E MSD	Matrix Spike Duplicate	114	68 S1-
890-1187-A-1-E MS	Matrix Spike	182 S1+	93
890-1187-A-1-F MSD	Matrix Spike Duplicate	157 S1+	103
890-1191-1	BH01	213 S1+	125
890-1191-2	BH01	126	121
890-1191-3	BH03	111	112
890-1191-4	BH03	110	111
890-1191-5	BH04	104	107
890-1191-6	BH04	104	112
LCS 880-7262/1-A	Lab Control Sample	104	77
LCS 880-7288/1-A	Lab Control Sample	107	109
LCSD 880-7262/2-A	Lab Control Sample Dup	109	86
LCSD 880-7288/2-A	Lab Control Sample Dup	109	108
MB 880-7262/5-A	Method Blank	105	100
MB 880-7288/5-A	Method Blank	105	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1190-A-1-F MS	Matrix Spike	89	69 S1-
890-1190-A-1-G MSD	Matrix Spike Duplicate	91	72
890-1191-1	BH01	69 S1-	69 S1-
890-1191-2	BH01	70	73
890-1191-3	BH03	73	70
890-1191-4	BH03	75	77
890-1191-5	BH04	76	78
890-1191-6	BH04	76	79
LCS 880-7363/2-A	Lab Control Sample	126	141 S1+
LCSD 880-7363/3-A	Lab Control Sample Dup	87	96
MB 880-7363/1-A	Method Blank	67 S1-	67 S1-

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7262/5-A
Matrix: Solid
Analysis Batch: 7384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7262

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:00	09/01/21 12:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 09:00	09/01/21 12:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 09:00	09/01/21 12:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 09:00	09/01/21 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/01/21 09:00*	*09/01/21 12:55*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/01/21 09:00*	*09/01/21 12:55*	*1*

Lab Sample ID: LCS 880-7262/1-A
Matrix: Solid
Analysis Batch: 7384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7262

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07243		mg/Kg		72	70 - 130		
Toluene			0.100	0.1000		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1008		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene			0.200	0.1893		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.08763		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*

Lab Sample ID: LCSD 880-7262/2-A
Matrix: Solid
Analysis Batch: 7384

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7262

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07059		mg/Kg		71	70 - 130	3	35
Toluene			0.100	0.08551		mg/Kg		86	70 - 130	16	35
Ethylbenzene			0.100	0.09127		mg/Kg		91	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1691		mg/Kg		85	70 - 130	11	35
o-Xylene			0.100	0.08001		mg/Kg		80	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-5629-A-1-D MS
Matrix: Solid
Analysis Batch: 7384

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.0998	0.04812	F1	mg/Kg		48	70 - 130		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

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

Lab Sample ID: 880-5629-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7384 — **Prep Batch: 7262**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U F1	0.0998	0.06939	F1	mg/Kg		69	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.06915	F1	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1322	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.06388	F1	mg/Kg		63	70 - 130

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

Lab Sample ID: 880-5629-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7384 — **Prep Batch: 7262**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.05315	F1	mg/Kg		53	70 - 130	10	35
Toluene	<0.00200	U F1	0.101	0.07792		mg/Kg		77	70 - 130	12	35
Ethylbenzene	<0.00200	U F1	0.101	0.08067		mg/Kg		79	70 - 130	15	35
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1589		mg/Kg		79	70 - 130	18	35
o-Xylene	<0.00200	U F1	0.101	0.07367		mg/Kg		72	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-7288/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7310 — **Prep Batch: 7288**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/31/21 08:55	08/31/21 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/31/21 08:55*	*08/31/21 12:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*08/31/21 08:55*	*08/31/21 12:45*	*1*

Lab Sample ID: LCS 880-7288/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7310 — **Prep Batch: 7288**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.08465		mg/Kg		85	70 - 130
Toluene			0.100	0.08005		mg/Kg		80	70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

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

Lab Sample ID: LCS 880-7288/1-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			0.100	0.07981		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1630		mg/Kg		82	70 - 130		
o-Xylene			0.100	0.08289		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-7288/2-A
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7288

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08632		mg/Kg		86	70 - 130	2	35
Toluene			0.100	0.08065		mg/Kg		81	70 - 130	1	35
Ethylbenzene			0.100	0.08073		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1661		mg/Kg		83	70 - 130	2	35
o-Xylene			0.100	0.08411		mg/Kg		84	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-1187-A-1-E MS
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U F1	0.100	0.05518	F1	mg/Kg		55	70 - 130		
Toluene	<0.00202	U F1	0.100	0.04081	F1	mg/Kg		40	70 - 130		
Ethylbenzene	0.0105	F1	0.100	0.04669	F1	mg/Kg		36	70 - 130		
m-Xylene & p-Xylene	0.0247	F1	0.200	0.1601	F1	mg/Kg		68	70 - 130		
o-Xylene	0.0159	F1	0.100	0.08001	F1	mg/Kg		64	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*182*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-1187-A-1-F MSD
Matrix: Solid
Analysis Batch: 7310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.100	0.05962	F1	mg/Kg		59	70 - 130	8	35
Toluene	<0.00202	U F1	0.100	0.04353	F1	mg/Kg		43	70 - 130	6	35
Ethylbenzene	0.0105	F1	0.100	0.05419	F1	mg/Kg		44	70 - 130	15	35
m-Xylene & p-Xylene	0.0247	F1	0.201	0.1898		mg/Kg		82	70 - 130	17	35
o-Xylene	0.0159	F1	0.100	0.09155		mg/Kg		75	70 - 130	13	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-7363/1-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7363

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 08:19	09/01/21 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	09/01/21 08:19	09/01/21 11:41	1
o-Terphenyl	67	S1-	70 - 130	09/01/21 08:19	09/01/21 11:41	1

Lab Sample ID: LCS 880-7363/2-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7363

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	853.0		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1213		mg/Kg		121	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: LCSD 880-7363/3-A
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7363

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	864.0		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1068		mg/Kg		107	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

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

Lab Sample ID: 890-1190-A-1-F MS
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	3660	F1	995	5638	F1	mg/Kg		199	70 - 130
Diesel Range Organics (Over C10-C28)	448		995	1239		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: 890-1190-A-1-G MSD
Matrix: Solid
Analysis Batch: 7359

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	3660	F1	998	5715	F1	mg/Kg		206	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	448		998	1276		mg/Kg		83	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*72*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7353/3
Matrix: Solid
Analysis Batch: 7353

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500	mg/Kg			08/31/21 22:21	1

Lab Sample ID: MB 880-7257/1-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/31/21 15:44	1

Lab Sample ID: LCS 880-7257/2-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	264.7		mg/Kg		106	90 - 110

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-7257/3-A
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	264.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-1187-A-1-C MS
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	98.8		249	366.4		mg/Kg		107	90 - 110		

Lab Sample ID: 890-1187-A-1-D MSD
Matrix: Solid
Analysis Batch: 7344

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	98.8		249	363.7		mg/Kg		106	90 - 110	1	20

Lab Sample ID: MB 880-7258/1-A
Matrix: Solid
Analysis Batch: 7352

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/21 18:48	1

Lab Sample ID: LCS 880-7258/2-A
Matrix: Solid
Analysis Batch: 7352

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	266.8		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-7258/3-A
Matrix: Solid
Analysis Batch: 7352

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	265.2		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-1178-A-5-D MS
Matrix: Solid
Analysis Batch: 7352

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	214		250	475.1		mg/Kg		104	90 - 110		

Lab Sample ID: 890-1178-A-5-E MSD
Matrix: Solid
Analysis Batch: 7352

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	214		250	473.8		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-7346/2-A
Matrix: Solid
Analysis Batch: 7353

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-7346/3-A
Matrix: Solid
Analysis Batch: 7353

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	260.3		mg/Kg		104	90 - 110	4	20

Lab Sample ID: 890-1191-4 MS
Matrix: Solid
Analysis Batch: 7353

Client Sample ID: BH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	12.6		248	276.1		mg/Kg		106	90 - 110		

Lab Sample ID: 890-1191-4 MSD
Matrix: Solid
Analysis Batch: 7353

Client Sample ID: BH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.6		248	260.8		mg/Kg		100	90 - 110	6	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

GC VOA

Prep Batch: 7262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Total/NA	Solid	5035	
MB 880-7262/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7262/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7262/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5629-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5629-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Total/NA	Solid	5035	
890-1191-2	BH01	Total/NA	Solid	5035	
890-1191-3	BH03	Total/NA	Solid	5035	
890-1191-4	BH03	Total/NA	Solid	5035	
890-1191-5	BH04	Total/NA	Solid	5035	
890-1191-6	BH04	Total/NA	Solid	5035	
MB 880-7288/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7288/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7288/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1187-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1187-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Total/NA	Solid	8021B	7288
890-1191-2	BH01	Total/NA	Solid	8021B	7288
890-1191-3	BH03	Total/NA	Solid	8021B	7288
890-1191-4	BH03	Total/NA	Solid	8021B	7288
890-1191-5	BH04	Total/NA	Solid	8021B	7288
890-1191-6	BH04	Total/NA	Solid	8021B	7288
MB 880-7288/5-A	Method Blank	Total/NA	Solid	8021B	7288
LCS 880-7288/1-A	Lab Control Sample	Total/NA	Solid	8021B	7288
LCSD 880-7288/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7288
890-1187-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	7288
890-1187-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7288

Analysis Batch: 7384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Total/NA	Solid	8021B	7262
MB 880-7262/5-A	Method Blank	Total/NA	Solid	8021B	7262
LCS 880-7262/1-A	Lab Control Sample	Total/NA	Solid	8021B	7262
LCSD 880-7262/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7262
880-5629-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	7262
880-5629-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7262

GC Semi VOA

Analysis Batch: 7359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Total/NA	Solid	8015B NM	7363
890-1191-2	BH01	Total/NA	Solid	8015B NM	7363
890-1191-3	BH03	Total/NA	Solid	8015B NM	7363

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

GC Semi VOA (Continued)

Analysis Batch: 7359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-4	BH03	Total/NA	Solid	8015B NM	7363
890-1191-5	BH04	Total/NA	Solid	8015B NM	7363
890-1191-6	BH04	Total/NA	Solid	8015B NM	7363
MB 880-7363/1-A	Method Blank	Total/NA	Solid	8015B NM	7363
LCS 880-7363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7363
LCSD 880-7363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7363
890-1190-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	7363
890-1190-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7363

Prep Batch: 7363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Total/NA	Solid	8015NM Prep	
890-1191-2	BH01	Total/NA	Solid	8015NM Prep	
890-1191-3	BH03	Total/NA	Solid	8015NM Prep	
890-1191-4	BH03	Total/NA	Solid	8015NM Prep	
890-1191-5	BH04	Total/NA	Solid	8015NM Prep	
890-1191-6	BH04	Total/NA	Solid	8015NM Prep	
MB 880-7363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1190-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1190-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Soluble	Solid	DI Leach	
890-1191-2	BH01	Soluble	Solid	DI Leach	
890-1191-3	BH03	Soluble	Solid	DI Leach	
MB 880-7257/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7257/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7257/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1187-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1187-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 7258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7258/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7258/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7258/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1178-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1178-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-1	BH01	Soluble	Solid	300.0	7257
890-1191-2	BH01	Soluble	Solid	300.0	7257
890-1191-3	BH03	Soluble	Solid	300.0	7257
MB 880-7257/1-A	Method Blank	Soluble	Solid	300.0	7257
LCS 880-7257/2-A	Lab Control Sample	Soluble	Solid	300.0	7257

QC Association Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

HPLC/IC (Continued)

Analysis Batch: 7344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-7257/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7257
890-1187-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	7257
890-1187-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7257

Leach Batch: 7346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-4	BH03	Soluble	Solid	DI Leach	
890-1191-5	BH04	Soluble	Solid	DI Leach	
890-1191-6	BH04	Soluble	Solid	DI Leach	
LCS 880-7346/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7346/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1191-4 MS	BH03	Soluble	Solid	DI Leach	
890-1191-4 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 7352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7258/1-A	Method Blank	Soluble	Solid	300.0	7258
LCS 880-7258/2-A	Lab Control Sample	Soluble	Solid	300.0	7258
LCSD 880-7258/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7258
890-1178-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	7258
890-1178-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7258

Analysis Batch: 7353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1191-4	BH03	Soluble	Solid	300.0	7346
890-1191-5	BH04	Soluble	Solid	300.0	7346
890-1191-6	BH04	Soluble	Solid	300.0	7346
MB 880-7353/3	Method Blank	Total/NA	Solid	300.0	
LCS 880-7346/2-A	Lab Control Sample	Soluble	Solid	300.0	7346
LCSD 880-7346/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7346
890-1191-4 MS	BH03	Soluble	Solid	300.0	7346
890-1191-4 MSD	BH03	Soluble	Solid	300.0	7346

Lab Chronicle

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Client Sample ID: BH01
Date Collected: 08/27/21 10:00
Date Received: 08/27/21 16:20

Lab Sample ID: 890-1191-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7262	09/01/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	7384	09/01/21 16:23	KL	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 18:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 14:51	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 18:11	SC	XEN MID

Client Sample ID: BH01
Date Collected: 08/27/21 10:05
Date Received: 08/27/21 16:20

Lab Sample ID: 890-1191-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 19:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 15:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 18:17	SC	XEN MID

Client Sample ID: BH03
Date Collected: 08/27/21 10:45
Date Received: 08/27/21 16:20

Lab Sample ID: 890-1191-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 19:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7257	08/31/21 13:50	CH	XEN MID
Soluble	Analysis	300.0		1			7344	08/31/21 18:22	SC	XEN MID

Client Sample ID: BH03
Date Collected: 08/27/21 10:50
Date Received: 08/27/21 16:20

Lab Sample ID: 890-1191-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 19:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7346	08/31/21 15:50	CH	XEN MID
Soluble	Analysis	300.0		1			7353	08/31/21 22:38	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Client Sample ID: BH04
Date Collected: 08/27/21 11:15
Date Received: 08/27/21 16:20

Lab Sample ID: 890-1191-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 20:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 16:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7346	08/31/21 15:51	CH	XEN MID
Soluble	Analysis	300.0		1			7353	08/31/21 22:55	CH	XEN MID

Client Sample ID: BH04
Date Collected: 08/27/21 11:20
Date Received: 08/27/21 16:20

Lab Sample ID: 890-1191-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7288	08/31/21 08:55	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7310	08/31/21 20:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7363	09/01/21 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7359	09/01/21 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7346	08/31/21 15:51	CH	XEN MID
Soluble	Analysis	300.0		1			7353	08/31/21 23:01	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. Job ID: 890-1191-1
Project/Site: AJ ADKINS Battery #3 SDG: Lea County

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	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

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: AJ ADKINS Battery #3

Job ID: 890-1191-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1191-1	BH01	Solid	08/27/21 10:00	08/27/21 16:20	0.5
890-1191-2	BH01	Solid	08/27/21 10:05	08/27/21 16:20	1
890-1191-3	BH03	Solid	08/27/21 10:45	08/27/21 16:20	0.5
890-1191-4	BH03	Solid	08/27/21 10:50	08/27/21 16:20	1
890-1191-5	BH04	Solid	08/27/21 11:15	08/27/21 16:20	0.5
890-1191-6	BH04	Solid	08/27/21 11:20	08/27/21 16:20	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	
Address:	3300 N A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	337-257-8307	Email:	anna.byers@wsp.com

Work Order Comments

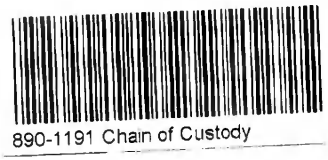
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	AJ Adkins Battery #3	Turn Around		Pres. Code	
Project Number:		☒ Routine ☐ Rush			
Project Location:	Lea County	Due Date:			
Sampler's Name:	Anna Byers	TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	T-NM-00	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.6	
Total Containers:		Corrected Temperature:	1.4	

ANALYSIS REQUEST

Parameters: BTEX (EPA 8021B); TPH (EPA 8015mod); Chloride (EPA 300.0)



Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2SO_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
BH01	S	8/27/21	1000	0.5'	Grab	1	APP2117561837
BH01			1005	1'		1	
BH03			1045	0.5'		1	
BH03			1050	1'		1	
BH04			1115	0.5'		1	
BH04			1120	1'		1	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers		8/27/21 4:20	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 9/8/2021 3:13:05 PM

Released to Imaging: 10/5/2021 9:11:32 AM

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-375 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1191-1
Address: 1211 W Florida Ave	Due Date Requested: 8/30/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: AJADKINS Battery #3	Project #: 89000048			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note
			Preservation Code:								
BH01 (890-1191-1)	8/27/21	10 00 Mountain		Solid			X	X	X	1	
BH01 (890-1191-2)	8/27/21	10 05 Mountain		Solid			X	X	X	1	
BH03 (890-1191-3)	8/27/21	10 45 Mountain		Solid			X	X	X	1	
BH03 (890-1191-4)	8/27/21	10 50 Mountain		Solid			X	X	X	1	
BH04 (890-1191-5)	8/27/21	11 15 Mountain		Solid			X	X	X	1	
BH04 (890-1191-6)	8/27/21	11 20 Mountain		Solid			X	X	X	1	

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.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Cue Cuf 8.30.21				8-31-21 1:00PM	
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2.2 12.1

Ver: 06/08/2021

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Received by OCD: 9/8/2021 3:13:05 PM
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9/3/2021
Released to Imaging: 10/5/2021 9:11:32 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1191-1
SDG Number: Lea County

Login Number: 1191
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1191-1
SDG Number: Lea County

Login Number: 1191
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 08/31/21 01:23 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 / 2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1204-1
Laboratory Sample Delivery Group: 31403551.000
Client Project/Site: AJ Adkins Battery#3

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
9/2/2021 3:04:30 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Laboratory Job ID: 890-1204-1
SDG: 31403551.000

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1204-1
Project/Site: AJ Adkins Battery#3 SDG: 31403551.000

Qualifiers

GC VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

Job ID: 890-1204-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1204-1

Receipt
The sample was received on 9/1/2021 9:16 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 4.4°C

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

GC Semi VOA
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.

Released to Imaging: 10/5/2021 9:11:32 AM

Client Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

Client Sample ID: FSO1

Date Collected: 08/31/21 12:30
Date Received: 09/01/21 09:16
Sample Depth: 1

Lab Sample ID: 890-1204-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/01/21 15:30	09/02/21 02:51	1
Toluene	**0.00488**		0.00202		mg/Kg		09/01/21 15:30	09/02/21 02:51	1
Ethylbenzene	**0.00482**		0.00202		mg/Kg		09/01/21 15:30	09/02/21 02:51	1
m-Xylene & p-Xylene	**0.00817**		0.00403		mg/Kg		09/01/21 15:30	09/02/21 02:51	1
o-Xylene	**0.00277**		0.00202		mg/Kg		09/01/21 15:30	09/02/21 02:51	1
Xylenes, Total	**0.0109**		0.00403		mg/Kg		09/01/21 15:30	09/02/21 02:51	1
Total BTEX	**0.0206**		0.00403		mg/Kg		09/01/21 15:30	09/02/21 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*09/01/21 15:30*	*09/02/21 02:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/01/21 15:30*	*09/02/21 02:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/01/21 15:44	09/02/21 05:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/01/21 15:44	09/02/21 05:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/01/21 15:44	09/02/21 05:53	1
Total TPH	<49.8	U	49.8		mg/Kg		09/01/21 15:44	09/02/21 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*09/01/21 15:44*	*09/02/21 05:53*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/01/21 15:44*	*09/02/21 05:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.3**		4.95		mg/Kg			09/02/21 11:05	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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)
880-5663-A-1-B MS	Matrix Spike	112	105
880-5663-A-1-C MSD	Matrix Spike Duplicate	109	106
890-1204-1	FSO1	127	97
LCS 880-7338/1-A	Lab Control Sample	111	104
LCS 880-7386/1-A	Lab Control Sample	112	95
LCSD 880-7338/2-A	Lab Control Sample Dup	107	105
LCSD 880-7386/2-A	Lab Control Sample Dup	109	105
MB 880-7338/5-A	Method Blank	102	98
MB 880-7386/5-A	Method Blank	106	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
890-1202-A-1-B MSD	Matrix Spike Duplicate		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1200-A-1-E MS	Matrix Spike	77	76
890-1200-A-1-F MSD	Matrix Spike Duplicate	78	76
890-1204-1	FSO1	81	88
LCS 880-7409/2-A	Lab Control Sample	92	89
LCSD 880-7409/3-A	Lab Control Sample Dup	87	86
MB 880-7409/1-A	Method Blank	82	91

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7338/5-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7338

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:30	09/01/21 12:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:30	09/01/21 12:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:30	09/01/21 12:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 09:30	09/01/21 12:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 09:30	09/01/21 12:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 09:30	09/01/21 12:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 09:30	09/01/21 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/01/21 09:30*	*09/01/21 12:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/01/21 09:30*	*09/01/21 12:55*	*1*

Lab Sample ID: LCS 880-7338/1-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7338

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07874		mg/Kg		79	70 - 130		
Toluene			0.100	0.07626		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.07838		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene			0.200	0.1610		mg/Kg		80	70 - 130		
o-Xylene			0.100	0.08115		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-7338/2-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7338

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07580		mg/Kg		76	70 - 130	4	35
Toluene			0.100	0.07204		mg/Kg		72	70 - 130	6	35
Ethylbenzene			0.100	0.07514		mg/Kg		75	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1537		mg/Kg		77	70 - 130	5	35
o-Xylene			0.100	0.07813		mg/Kg		78	70 - 130	4	35

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

Lab Sample ID: 880-5663-A-1-B MS
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.100	0.07493		mg/Kg		74	70 - 130		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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

Lab Sample ID: 880-5663-A-1-B MS
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F1	0.100	0.07267		mg/Kg		72	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.07320		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1510		mg/Kg		75	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.07692		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-5663-A-1-C MSD
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06840	F1	mg/Kg		67	70 - 130	9	35
Toluene	<0.00199	U F1	0.101	0.06533	F1	mg/Kg		65	70 - 130	11	35
Ethylbenzene	<0.00199	U F1	0.101	0.06645	F1	mg/Kg		66	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1366	F1	mg/Kg		68	70 - 130	10	35
o-Xylene	<0.00199	U F1	0.101	0.06947	F1	mg/Kg		69	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-7386/5-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7386

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/21 15:30	09/01/21 23:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/21 15:30	09/01/21 23:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/21 15:30	09/01/21 23:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/21 15:30	09/01/21 23:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/21 15:30	09/01/21 23:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/21 15:30	09/01/21 23:47	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/01/21 15:30	09/01/21 23:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/01/21 15:30*	*09/01/21 23:47*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/01/21 15:30*	*09/01/21 23:47*	*1*

Lab Sample ID: LCS 880-7386/1-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			0.100	0.07667		mg/Kg		77	70 - 130
Toluene			0.100	0.07511		mg/Kg		75	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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

Lab Sample ID: LCS 880-7386/1-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			0.100	0.07912		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene			0.200	0.1667		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.09024		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-7386/2-A
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7386

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07618		mg/Kg		76	70 - 130	1	35
Toluene			0.100	0.07362		mg/Kg		74	70 - 130	2	35
Ethylbenzene			0.100	0.07632		mg/Kg		76	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1589		mg/Kg		79	70 - 130	5	35
o-Xylene			0.100	0.08299		mg/Kg		83	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-1202-A-1-B MSD
Matrix: Solid
Analysis Batch: 7383

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.05170		mg/Kg					
Toluene	<0.00198	U	0.0998	0.04259		mg/Kg					
Ethylbenzene	<0.00198	U	0.0998	0.03835		mg/Kg					
m-Xylene & p-Xylene	<0.00396	U	0.200	0.07838		mg/Kg					
o-Xylene	<0.00198	U	0.0998	0.04016		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

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

Lab Sample ID: MB 880-7409/1-A
Matrix: Solid
Analysis Batch: 7361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7409

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/01/21 15:44	09/01/21 21:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/01/21 15:44	09/01/21 21:54	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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

Lab Sample ID: MB 880-7409/1-A
Matrix: Solid
Analysis Batch: 7361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7409

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/01/21 15:44	09/01/21 21:54	1
Total TPH	<50.0	U	50.0		mg/Kg		09/01/21 15:44	09/01/21 21:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/01/21 15:44*	*09/01/21 21:54*	*1*
o-Terphenyl	*91*		*70 - 130*	*09/01/21 15:44*	*09/01/21 21:54*	*1*

Lab Sample ID: LCS 880-7409/2-A
Matrix: Solid
Analysis Batch: 7361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7409

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	969.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	826.0		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: LCSD 880-7409/3-A
Matrix: Solid
Analysis Batch: 7361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7409

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	930.2		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	792.8		mg/Kg		79	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 890-1200-A-1-E MS
Matrix: Solid
Analysis Batch: 7361

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	915.9		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	729.9		mg/Kg		72	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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

Lab Sample ID: 890-1200-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7361 — **Prep Batch: 7409**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	948.9		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	730.8		mg/Kg		72	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7406/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7417

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/01/21 22:21	1

Lab Sample ID: LCS 880-7406/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	260.0		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-7406/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	259.5		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1203-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	12.1		249	272.8		mg/Kg		105	90 - 110		

Lab Sample ID: 890-1203-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.1		249	272.9		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1204-1
Project/Site: AJ Adkins Battery#3 SDG: 31403551.000

GC VOA

Prep Batch: 7338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7338/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7338/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7338/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5663-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-5663-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1204-1	FSO1	Total/NA	Solid	8021B	7386
MB 880-7338/5-A	Method Blank	Total/NA	Solid	8021B	7338
MB 880-7386/5-A	Method Blank	Total/NA	Solid	8021B	7386
LCS 880-7338/1-A	Lab Control Sample	Total/NA	Solid	8021B	7338
LCS 880-7386/1-A	Lab Control Sample	Total/NA	Solid	8021B	7386
LCSD 880-7338/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7338
LCSD 880-7386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7386
880-5663-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	7338
880-5663-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7338
890-1202-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7386

Prep Batch: 7386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1204-1	FSO1	Total/NA	Solid	5035	
MB 880-7386/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7386/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7386/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1202-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1204-1	FSO1	Total/NA	Solid	8015B NM	7409
MB 880-7409/1-A	Method Blank	Total/NA	Solid	8015B NM	7409
LCS 880-7409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7409
LCSD 880-7409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7409
890-1200-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7409
890-1200-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7409

Prep Batch: 7409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1204-1	FSO1	Total/NA	Solid	8015NM Prep	
MB 880-7409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1200-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1200-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1204-1	FSO1	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1204-1
Project/Site: AJ Adkins Battery#3 SDG: 31403551.000

HPLC/IC (Continued)

Leach Batch: 7406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7406/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7406/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7406/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1203-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1203-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1204-1	FSO1	Soluble	Solid	300.0	7406
MB 880-7406/1-A	Method Blank	Soluble	Solid	300.0	7406
LCS 880-7406/2-A	Lab Control Sample	Soluble	Solid	300.0	7406
LCSD 880-7406/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7406
890-1203-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	7406
890-1203-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7406

Lab Chronicle

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

Client Sample ID: FSO1

Date Collected: 08/31/21 12:30
Date Received: 09/01/21 09:16

Lab Sample ID: 890-1204-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7386	09/01/21 15:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7383	09/02/21 02:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7409	09/01/21 15:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7361	09/02/21 05:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7406	09/01/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1			7417	09/02/21 11:05	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: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

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: AJ Adkins Battery#3

Job ID: 890-1204-1
SDG: 31403551.000

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1204-1	FSO1	Solid	08/31/21 12:30	09/01/21 09:16	1

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9/2/2021

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	
Address:	3300 N A St	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	337-257-8307 Email:	anna.byers@wsp.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	AJ Adkins Battery #3	Turn Around	
Project Number:	31463551.000	☐ Routine ☒ Rush	
Project Location:	Lea County	Due Date:	24 HR
Sampler's Name:	Anna Byers	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	nAPP2117561837		

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.6	
Total Containers:		Corrected Temperature:	4.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX (EPA 8021B)	TPH (EPA 8015 Mod)	Chloride (EPA 300.0)
FS01	S	8/31/21	1230	1'	Comp	1		X	X	X

890-1204 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
CL: HC HNO_3: HN
$_2SO_4$: H_2 NaOH: Na
$_3PO_4$: HP
$aHSO_4$: NABIS
$a_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and ~~Metal(s) to be analyzed~~ **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers		9/1/21 5:00	2		9/1/21 9:16
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

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Received by OCD: 9/8/2021 3:13:05 PM

Released to Imaging: 10/5/2021 9:11:32 AM

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-379 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1204-1
Address: 1211 W Florida Ave	Due Date Requested: 9/2/2021			
City: Midland	TAT Requested (days)			
State, Zip: TX, 79701	PO #:			
Phone: 432-704-5440(Tel)	WO #			
Email				
Project Name: AJ Adkins Battery#3	Project #: 89000048			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note
			Preservation Code:								
FSO1 (890-1204-1)	8/31/21	12 30 Mountain		Solid			X	X	X	1	

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.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Cue Cuf 9.1.21				9.1.21	
2	Relinquished by	Date/Time	Company	Received by	Date/Time 325	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks	2.1/2.6

Ver: 06/08/2021

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9/2/2021
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Released to Imaging: 10/5/2021 9:11:32 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1204-1
SDG Number: 31403551.000

Login Number: 1204
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1204-1
SDG Number: 31403551.000

Login Number: 1204
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 09/01/21 03:30 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 47190

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 47190
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred 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.	10/5/2021