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	nAPP2110942033
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289	
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647	
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD)	
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220		

Location of Release Source

Latitude <u>32.325495</u>

Longitude -104.0426926 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Longview Federal 12-15H	Site Type: Production Facility
Date Release Discovered: 04/09/2021	API# (if applicable): 30-015-41092

Unit Letter	Section	Township	Range	County
С	12	23S	28E	Eddy

Surface Owner: State X Federal Tribal Private (Name:

Nature and Volume of Release

	Material(s) Released (Select all that app	bly and attach calculations or specific j	justification for the volumes	provided below)
Crude Oil	Volume Released (bbls))	Volume Recovered (b	bls)

X Produced Water	Volume Released (bbls): 6	Volume Recovered (bbls): 2
	Is the concentration of dissolved chloride 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:

At 8:00 hours $\frac{1}{4}$ inch connection sheared on the water transfer line causing ~6bbl PW to impact the pad surface and into the pasture. 2bbl of PW was recovered using a vacuum truck.

$$bbl \ estimate = \frac{saturated \ soil \ volume \ (ft^3)}{4.21(\frac{ft^3}{bbl \ equivalent})} * \ estimated \ soil \ porosity(\%)$$

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Oil Conservation Division

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
Yes X No	
IFVES was immediate a	tion given to the OCD2 Dryncham? To whom? When and hy what means (shane, smail, sto)?
II I ES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 $\overline{\mathbf{X}}$ The source of the release has been stopped.

 \mathbf{X} The impacted area has been secured to protect human health and the environment.

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

X 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: Lynda Laumbach	Title:Environmental Specialist
Signature: Jonda Jom Back	Date: 04/19/2021
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
OCD Only	
Received by:	Date:

Oil Conservation Division

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	≥ 50 (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 X 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.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- \mathbf{X} Determination of water sources and significant watercourses within $\frac{1}{2}$ -mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

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

Received by OCD: 7/8/20	21 9:49:30 AM State of New Mexico				Page 4 of 15
				Incident ID	nAPP2110942033
Page 4	Oil Conservation Division	Oil Conservation Division			
				Facility ID	
				Application ID	
regulations all operators ar public health or the enviro failed to adequately investi	Sombach	notifications a he OCD does threat to grou r of responsib Title: Date: (nd perform co not relieve the ndwater, surfa ility for compl	rrective actions for rele operator of liability sh- ce water, human health iance with any other fea ntal Professional	ases which may endanger ould their operations have or the environment. In
OCD Only Received by: Cristi	na Eads	·	Date: 07/0	8/2021	

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Oil Conservation Division

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) \checkmark Description of remediation activities 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Lynda Laumbach Title: Environmental Professional Signature: Date: 07/08/2021 email: lynda.laumbach@dvn.com Telephone: 575-725-1647 **OCD Only** Date: 07/08/2021 Cristina Eads Received by: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Date: 07/20/2021 Closure Approved by: _ Printed Name: Cristina Eads Title: Environmental Specialist

WSP USA

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

July 6, 2021

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

RE: Closure Request WPX Energy Permian, LLC. Longview Federal 12-15H Incident Number nAPP2110942033 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of WPX Energy Permian, LLC. (WPX), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Longview Federal 12-15H (Site) located in Unit C, Section 12, Township 23 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and results of the soil sampling events, WPX is submitting this Closure Request, describing remediation that has occurred and requesting No Further Action (NFA) for Incident Number nAPP2110942033.

RELEASE BACKGROUND

On April 9, 2021, a 1/4-inch connection sheared on the water transfer line connection and caused the release of approximately 6 barrels (bbls) of produced water onto of the well pad surface and the adjacent pasture. A vacuum truck was dispatched to the Site and recovered approximately 2 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on April 19, 2021 that was subsequently assigned Incident Number nAPP2110942033.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from 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 55 feet below ground surface (bgs) based on information obtained from a nearby soil boring. The nearest permitted water well with depth to water data is New Mexico Office of the State Engineer (NMOSE) well C 04418, located approximately 271 feet southeast of the Site. NMOSE well C 04418 is a borehole advanced by WPX on March 31, 2020 during a depth to water study

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of the area. Using a truck mounted drill rig equipped with hollow stem augers, the soil boring was advanced to a total depth of approximately 55 feet bgs. Water was not observed during drilling operations or within the soil boring after 48 hours and the boring was plugged and abandoned. A Plugging Record of the soil boring is included as Attachment 1.

The closest significant watercourse to the Site is the Pecos River, located approximately 3,939 feet west of the Site. The Site is greater than 300 feet from any 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 located in a medium-potential karst area. Potential receptors identified during site characterization are displayed in 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: 10,000 mg/kg

The reclamation closure criteria of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be immediately reclaimed following remediation.

INITIAL SITE ASSESSMENT ACTIVITIES

On April 9, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the incident description (release source and release location) with visual soil impacts and confirmed the release impacted the well pad surface and the adjacent pasture. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Between April 21 and May 7, 2021, WSP conducted delineation and excavation activities simultaneously in order to define the extent of vertical and lateral impacts and remove residual impacts exceeding the Closure Criteria and/or reclamation requirements in the pasture.

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District II Page 3

Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab[®] test strips. A total of nine potholes (PH01 through PH09) were advanced with mechanical equipment within and around the release extent to assess the lateral and vertical extent of impacted soil. A minimum of two soil samples were collected from each of the pothole locations: the sample with the highest observed field screening concentrations depth (ranging from approximately 0.5-feet to 1-foot bgs) and the greatest depth (ranging from approximately 1-foot to 6 feet bgs). The delineation soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Eurofins Xenco LLC. (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. The delineation soil sample locations are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2.

Based on elevated chloride field screenings above the Closure Criteria from delineation soil sampling activities, excavation appeared warranted.

To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach[®] chloride QuanTab[®] test strips, respectively. Following removal of impacted soil, WSP collected 5-point composite soil samples at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 4 feet bgs. Composite soil samples FS01 through FS10, FS07A, and FS08A were collected from the floor of the excavation at depths ranging from approximately 1-foot bgs to 4.5 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 3.

A total of approximately 165 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed at the R360 Facility in Hobbs, New Mexico under WPX approved manifests.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results associated with final excavation confirmation samples indicate compliance with the Closure Criteria and/or the reclamation standard. Laboratory analytical results for the delineation soil samples collected from potholes PH03 through PH09 indicate

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immediate horizontal definition of the subject release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment, delineation and excavation activities were conducted to address the release of produced water at the Site. Laboratory analytical results for excavation soil samples, collected from the final excavation extent on the well pad and well pad boundary (FS01, FS02, SW05 and SW06), indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, soil samples collected in the pasture from the top 4 feet of the subsurface (SW01 through SW04 and FS03 through FS10) were compliant with the reclamation criteria. Based on the soil sample analytical results, no further remediation was required. Initial response efforts, which included recovery of standing fluids and the follow-up excavation of residual impacted soil has mitigated impacts at this Site. As such, WPX requests NFA for Incident Number nAPP2110942033.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel R. Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

Fatima Smith Associate Consultant, Geologist

Daniel R. Moir, P.G. Lead Consultant, Geologist



District II Page 5

cc: Lynda Laumbach, Devon Energy Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Record
- Attachment 2 Lithologic\Soil Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

FIGUR



Released to Imaging: 7/20/2021 9:09:57 AM





TABLES

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Table 1

Soil Analytical Results Longview Federal 12-15H Incident Number nAPP2110942033 WPX Energy Permian, LLC. Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Samples										
PH01	04/21/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	7,190
PH01	04/21/2021	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	3,680
PH01	04/21/2021	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	1,180
PH01	04/21/2021	5	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	4,930
PH01	04/21/2021	6	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	580
PH02	04/21/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	5,650
PH02	04/21/2021	2	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	59.0
РН03	04/21/2021	0.5	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	406
PH03	04/21/2021	1	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	212
PH04	04/21/2021	0.5	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	275
PH04	04/21/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	11.3
PH05	04/21/2021	0.5	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6.62
PH05	04/21/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	103
PH06	04/21/2021	0.5	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	291
PH06	04/21/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	139
PH07	04/21/2021	0.5	< 0.00201	< 0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	102
PH07	04/21/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	12.9
PH08	04/21/2021	0.5	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	79.8
PH08	04/21/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	67.9

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Table 1

Soil Analytical Results Longview Federal 12-15H Incident Number nAPP2110942033 WPX Energy Permian, LLC. Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
PH09	04/21/2021	0.5	< 0.00199	< 0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	60.0
PH09	04/21/2021	1	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	192
Excavation Floor Sa	amples									
FS01	04/22/2021	1 - 2	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,450
FS02	04/22/2021	1 - 2	< 0.00199	< 0.00398	52.6	<49.9	<49.9	52.6	52.6	3,260
FS03	04/22/2021	4	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	3,870
FS04	04/22/2021	4	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	3,540
FS05	04/22/2021	4	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	3,630
FS06	04/22/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6,170
FS07	04/22/2021	4	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	10,100
FS07A	05/11/2021	4.5	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	2,130
FS08	04/22/2021	4	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	11,100
FS08A	05/11/2021	4.5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	591
FS09	04/22/2021	4	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,620
FS10	05/11/2021	4.5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	589
Excavation Sidewal	l Samples				-					
SW01	04/21/2021	0 - 4	< 0.00200	< 0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	219
SW02	04/21/2021	0 - 4	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	315
SW03	04/21/2021	0 - 4	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	131

Table 1

Soil Analytical Results Longview Federal 12-15H Incident Number nAPP2110942033 WPX Energy Permian, LLC. Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
SW04	04/21/2021	0 - 4	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
SW05	04/21/2021	0 - 4	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,870
SW06	04/21/2021	0 - 4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	7,150

Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated

* - indicates sample was collected in area to be reclaimed after remediation is complete;

closure criteria in the top 4 feet of soil is 600 mg/kg for chloride and 100 mg/kg for TPH

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

N	OSE POD NO POD1). (WELL NO).)		WELL TAG ID NO. Well Tag ID No.	ot Issued	1	OSE FILE NO(C 04417	S).		
OCATH	WELL OWNI	-)					PHONE (OPTI	ONAL)		
WELL LO	WELL OWN 5315 Buen							CITY Carlsbad		state NM 88220	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GP		DI	GREES 32	MINUTES 20	SECON 35.	4 N		REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A SECOND	
SNEF		LO	NGITUDE	-104	02	47.					
			NG WELL LOCATION TO nacle State #25) STREET ADDR	ESS AND COMMON	I LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	IERE AVAILABLE	
	LICENSE NO 178		NAME OF LICENSED		Mark Mumby				NAME OF WELL DR HRL C	ILLING COMPANY Compliance Solutions	
	DRILLING ST 3/31/2		DRILLING ENDED 3/31/2020	DEPTH OF CO	MPLETED WELL (F1 55	r)	BORE HOI	LE DEPTH (FT) 55		ST ENCOUNTERED (FT was not encountered	
z	COMPLETE	O WELL IS:	ARTESIAN	I DRY HOL	E SHALLO	W (UNCO)	NFINED)			VEL IN COMPLETED WI esent in the well af	
OII	DRILLING FI	LUID:	AIR -	MUD	ADDITIV	ES – SPEC	IFY:				
RM/	DRILLING M	IETHOD:	ROTARY	HAMMER	CABLE T	OOL	OTHE	R – SPECIFY:	Hollo	w Stem Auger	
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM		MATERIAL AND GRADE ach casing string,		CONN	ASING NECTION YPE	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
CASI	0	45	(inches) 6.25		ections of screen) Blank PVC		(add coupl	h Thread	(inches) 2.0	(inches) 0.154	(inches)
30	45	55	6.25	Factory	Slotted PVC Scree	en		h Thread	2.0	0.154	0.010
DRI											
				<u></u>	<u></u> .						
	<u> </u>		1	1							
L L	DEPTH		BORE HOLE DIAM. (inches)	1	ST ANNULAR SE VEL PACK SIZE-				AMOUNT (cubic feet)	METHC PLACE	
ERIA	FROM	то		N	o Annular Seal M	aterial or	Gravel Pa	ıck	None		
МАТ	· · ·										
AR I											
3. ANNULAR MATERIAL											
3. AN											
FOR	OSE INTER	NAL USE						WR-2	0 WELL RECORD	& LOG (Version 04/3	

99 FILE NO. POD NO. TRN NO. 670 4417 ζ Sec 36 LOCATION T225 RZSE PAGE 1 OF 2 ٦ Ч WELL TAG ID NO. 3

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	DEPTH () FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WA	TER-BEARIN	MATERIAL E G CAVITIES O sheets to fully d	OR FRAC	TURE ZONE	s	WAT BEAR (YES)	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	55	55		Silt/Sand wi	th Interbedded c	aliche			Y	√ N	0.00
										Y	N	
										Y	N	
										Y	N	
										Y	N	
Ţ								•		Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
,0G										Y	N	
101										Y	N	
FOG										Y	N	
GEO										Y	N	
RO										Y	N	
ахн										Y	N	
4										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEAR	NG STRATA:					AL ESTIM		
	D PUMI	2 🗖 🗛	IR LIFT	BAILER	OTHER - SPE	CIFY: Water N	lot Encou	intered	WEL.	L YIELD	(gpm):	0.00
SION	WELL TES			ACH A COPY OF D. ME, AND A TABLE								
	MISCELLA	NEOUS INF	ORMATION: W	ell was drilled to de	etermine dept	h to groundwa	ter in the	e area. The v	vell wa	as a temp	orary we	ell. The well
TEL			wa	as monitored for the	e presence of	water 48-hour	rs after di	illing was c	omple	te; water	was not	encountered in
C SI			ine	e well at this time. '	i ne well was	subsequently	abandon	ed on 4/3/20	120.			
TEST; RIG SUPERV												
TES	PRINT NAM	IE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PR	OVIDED ON	SITE SUPERVI	SION OF	WELL CON	STRUG	CTION OT	HER TH	IAN LICENSEE:
ŝ	Kalvin (Kell	y) Padilla										
·				AT TO THE BEST								
6. SIGNATURE				WELL I ALSO CER WITH THE PERMIT								
TAT			_									
SIG		W/ 5.	M_	M	Mark Mumb	у			uh	zlan	N	
نو	_///	SIGNATI	VRE OF DRILLE	R / PRINT SIGNE	ENAME			<u> </u>	//0	Y AU	DATE	
								· · · · · · · · · · · · · · · · · · ·				
	OSE INTERI	NAL USE										sion 04/30/2019)
	<u>ENO.</u>	<u>- 4 41</u>	<u></u>	226 02	POD NO.		_ · · · · ·	TRN NO.	6		544	
	CATION	55		LLS KL	-X (-	Sec. 36	WELL 7	AG ID NO.		<u>NA</u>		PAGE 2 OF 2

John R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 670344 File Nbr: C 04417 Well File Nbr: C 04417 POD1

May. 29, 2020

LYNDA LAUMBACH WPX ENERGY 5315 BUENA VISTA DRIVE CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/26/2020.

The Well Record was received in this office on 05/26/2020, stating that it had been completed on 03/31/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/26/2021.

If you have any questions, please feel free to contact us.

Sincerely NA

Andrew Dennis (575)622-6521

drywell

		. //0/2		:49:30 AI						Page		
					ws	P USA			BH or PH Name: PH01	Date: 04/21/2021		
				5	08 West	Stevens S	Street		Site Name: Longview Federal	12-15H		
				Car	lsbad, Ne	w Mexico	88220		RP or Incident Number nAPP2110942033			
									WSP Job Number: TE034821014			
				SIC / SOIL			G		Logged By: FS	Method: Backhoe		
Lat/Lo	ong: 32.325	5389, -104	4.04331		Field Scre Hach chlo	ening: pride strips	PID		Hole Diameter: NA	Total Depth: 6 feet bgs		
Comm	nents: All c	hloride fie	eld scre	enings inclue								
M-moi	ist; D-dry; `	Y-yes; N-ı	no		1	1						
nt Dt	e –	<u>ب</u>	b	#	Sample		ock					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	(ft bgo)	S/F /mb		Litholog	y/Remarks		
Mo	Ч С	> 9	Sta	Sar	(ft bgs)	(it bys)	USCS/Rock Symbol					
D			Y			0		0-4' CAI	ICHE GRAVEL dry tan	-off white, poorly sorted, poorly		
						Γ	0.	cons	solidated, some dark bro	own staining, no odor		
D	12,661	0.0	Ν	PH01	1	1						
D	3,477	0.0	Ν	PH01	2	2						
	0,111	0.0				T I						
					-	3						
D	823	0.0	Ν	PH01	4	4	CCHE	4-6' CAI	ICHE, drv_tan-off white	poorly consolidated, no stain,no		
					-	T I	SOUL	odo				
D	2,783	0.4	Ν	PH01	5	5						
D	476	0.0	Ν	PH01	6	6						
$\overline{}$	110	0.0		11101	0	Ũ						
`							T	D @ 6 fee	t bgs			
		$\overline{\ }$										
				$\overline{\}$								
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1151							
		WSP USA			BH or PH Name: PH02	Date: 04/21/2021	
		508 West Stevens S	Street		Site Name: Longview Federal	12-15H	
	Ca	Isbad, New Mexico	88220		RP or Incident Number nAPP2110942033		
					WSP Job Number: TE034821014		
LITH	OLOGIC / SOI	L SAMPLING LO	G		Logged By: FS	Method: Backhoe	
Lat/Long: 32.325289, -10		Field Screening:		Hole Diameter: NA	Total Depth: 2 feet bgs		
Laveong. 02.020200, 10	4.040270	Hach chloride strips,					
Comments: All chloride fi	eld screenings inclu	de a 40% correction fa	actor				
M-moist; D-dry; Y-yes; N-	no						
e + e	ه #	Sampla	USCS/Rock Symbol				
Moisture Content Chloride (ppm) Vapor (ppm)	ple nin	Sample Depth (ft bgs)	/R(Lithology	//Remarks	
Moisture Content Chloride (ppm) Vapor (ppm)	Staining Sample #	(ft bgs) (ft bgs)	Syn		LITIOIO	witteniaiks	
≥00	w w	(it bgs)	SU				
D	Y	0		0-2' CAL	ICHE GRAVEL, dry, tan-	off white, poorly sorted, poorly	
		T T		cons	olidated, some dark brov	vn staining, no odor	
D 5,129 0.0	N PH02	1 <u>1</u> 1					
D 380 0.0	N PH02	2 2					

etvea by OCD: //8/2021 9:49:	WSP USA	BH or PH Name: PH03	Date: 04/21/2021			
	508 West Stevens Street Carlsbad, New Mexico 88220	Site Name: Longview Federa RP or Incident Number nAPP				
			WSP Job Number: TE034821014			
LITHOLOGIC /	SOIL SAMPLING LOG	Logged By: FS	Method: Backhoe			
Lat/Long: 32.325221, -104.043327	Field Screening:	Hole Diameter: NA	Total Depth: 1 foot bgs			
Comments: All chloride field screening:	Hach chloride strips, PID					
M-moist; D-dry; Y-yes; N-no						
Moisture Content Chloride (ppm) Vapor (ppm) Staining	Sample Depth (ft bgs)	Litholo	gy/Remarks			
		1' CALICHE, dry, tan-off white odor	e, poorly consolidated, no stain, no			
		1 foot bgs				
		Ň				

	WSP USA	BH or PH Name: PH04	Date: 04/21/2021		
E Con	08 West Stevens Street Isbad, New Mexico 88220	Site Name: Longview Federal			
	ISDAU, INEW INEXICO OOZZO	RP or Incident Number nAPP2110942033 WSP Job Number: TE034821014			
LITHOLOGIC / SOI	SAMPLING LOG	Logged By: FS	Method: Backhoe		
Lat/Long: 32.325119, -104.04317	Field Screening:	Hole Diameter: NA	Total Depth: 1 foot bgs		
Comments: All chloride field screenings inclu	Hach chloride strips, PID de a 40% correction factor				
M-moist; D-dry; Y-yes; N-no					
Moisture Content Chloride (ppm) Vapor (ppm) Staining Staining	Sample Depth (ft bgs)	Litholog	yy/Remarks		
D N D <184 0.0 N PH04 D <184 0.0 N PH04		CALICHE, dry, tan-off white dor	, poorly consolidated, no stain, no		
	TD @ 1 f	oot bgs			

elvea by OCD: //8/2021 9:49:50			ruge 2		
MSD	WSP USA	BH or PH Name: PH05	Date: 04/21/2021		
	508 West Stevens Street	Site Name: Longview Federal 1	2-15H		
С	arlsbad, New Mexico 88220	RP or Incident Number nAPP2			
		WSP Job Number: TE0348210			
	IL SAMPLING LOG	Logged By: FS	Method: Backhoe		
Lat/Long: 32.325268, -104.043185	Field Screening:	Hole Diameter: NA	Total Depth: 1 foot bgs		
Lat Long. 52.525200, -104.045105	Hach chloride strips, PID	Hole Diameter. NA	Total Depth. Those bys		
Comments: All chloride field screenings inc					
M-moist; D-dry; Y-yes; N-no					
Moisture Content Chloride (ppm) Vapor (ppm) Staining Staining	Sample Depth (ft bgs)		/Remarks		
D <184 0.0 N PH05 D <156 0.0 N PH05	0.5	1' CALICHE, dry, tan-off white, odor	boorly consolidated, no stain, no		
	· · · · ·	1 foot bgs			

eiveu by OCD. 7/8/2021 9.49			Tuge
MSD	WSP USA	BH or PH Name: PH06	Date: 04/21/2021
	508 West Stevens Street	Site Name: Longview Feder	ral 12-15H
	Carlsbad, New Mexico 88220	RP or Incident Number nAP	
		WSP Job Number: TE03482	
LITHOLOGIC /	SOIL SAMPLING LOG	Logged By: FS	Method: Backhoe
Lat/Long: 32.325347, -104.043202	Field Screening:	Hole Diameter: NA	Total Depth: 1 foot bgs
	Hach chloride strips, PID		
Comments: All chloride field screenings M-moist; D-dry; Y-yes; N-no	include a 40% correction factor		
INI-INISI, D-ury, T-yes, N-IIO			
Moisture Content Chloride (ppm) Vapor (ppm) Staining	Sample Depth (ft bgs)	Litholc	ogy/Remarks
		l' CALICHE, dry, tan-off white odor	e, poorly consolidated, no stain, no
		1 foot bgs	

elvea by OCD: 7/8/2021	7.47.50 1111				Tuge .
MSD	WSP	USA	BH or	PH Name: PH07	Date: 04/21/2021
	508 West St	evens Street	Site N	lame: Longview Federa	al 12-15H
	Carlsbad, New	Mexico 88220		Incident Number nAPP	
				Job Number: TE03482	
	GIC / SOIL SAMPLII	NG LOG		ed By: FS	Method: Backhoe
Lat/Long: 32.325229, -104.0432				Diameter: NA	Total Depth: 1 foot bgs
Laveong. 02.020220, 104.0402		de strips, PID	110101	Sidificitor. NY	
Comments: All chloride field scr					
M-moist; D-dry; Y-yes; N-no					
Moisture Content Chloride (ppm) Vapor (ppm) Staining	# Sample d Depth w (ft bgs) (Depth Symbol			gy/Remarks
D <156 0.1 N D <156 0.0 N	PH07 0.5 PH07 1	0 CCHE 1	0-1' CALICHE odor	, dry, tan-off white	e, poorly consolidated, no stain, no
		TC	0 @ 1 foot bgs		

eiveu by OCD. 7/6/2021 9.49.30		BH or PH Name: PH08	Date: 04/21/2021
	WSP USA		
	508 West Stevens Street	Site Name: Longview Federa	
	Carlsbad, New Mexico 88220	RP or Incident Number nAPF	
		WSP Job Number: TE03482	
	DIL SAMPLING LOG	Logged By: FS	Method: Backhoe
Lat/Long: 32.32542, -104.042902	Field Screening: Hach chloride strips, PID	Hole Diameter: NA	Total Depth: 1 foot bgs
Comments: All chloride field screenings ir			
M-moist; D-dry; Y-yes; N-no			
Moisture Content Chloride (ppm) Vapor (ppm) Staining	Sample Depth (ft bgs)		gy/Remarks
D <156 0.1 N PH0 D <156 0.0 N PH0 D <156 0.0 N PH0	3 0.5	CALICHE, dry, tan-off white odor	, poorly consolidated, no stain, no
		foot bgs	

ervea by O	CD: //0/2						BH or PH Name: PH09	Date: 04	1/21/2021
				WSP USA					
		_	5	08 West Stevens	Street		Site Name: Longview Feder		
			Carl	sbad, New Mexic	88220		RP or Incident Number nAP		
	1.1771.14			CAMPLINO 1	20		WSP Job Number: TE0348	1	Dealthan
_at/Long: 32.3				Field Screening:	JG		Logged By: FS Hole Diameter: NA		Backhoe epth: 1 foot bgs
				Hach chloride strip				Total De	
Comments: A M-moist; D-dr	ll chloride fie	ld scree	enings incluc	le a 40% correction	factor				
					×				
Moisture Content Chloride (ppm)	u) u	Staining	Sample #	Sample Depth	Bol				
ontion	Vapor (ppm)	tain	dma	Depth (ft back) SS/		Lithold	ogy/Remarks	3
≥0 0°		Ś	S	(ft bgs) (it bgs	USCS/Rock Symbol				
D		Ν		0					, poorly sorted, poorly
D <156 D <156		N N	PH09 PH09	0.5 1 1	SP		solidated, no stain, no	odor	rted, fine-very fine grair
D <150	5 0.0	IN	FH09	1 1	35		in, no odor	n, poony soi	nteu, nine-very nine gran
$\overline{}$	•			· · · · ·	·				
\mathbf{i}						TD @ 1 fc	or bgs		
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	PHOTOGRAPHIC LOG	
WPX Energy Permian,	Longview Federal 12-15H	TE034821014
LLC.	Eddy County, NM	



Photo No.	Date
2	April 22, 2021
Final on pad exca	vation facing south



	PHOTOGRAPHIC LOG	
WPX Energy Permian,	Longview Federal 12-15H	TE034821014
LLC.	Eddy County, NM	



Photo No.	Date
4	May 7, 2021
	northeast during n activities.
Received by OCD: 7/8/2021 9:49:30 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-567-1

Laboratory Sample Delivery Group: TE034821014 Client Project/Site: Longview 12-15 Revision: 2

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/10/2021 3:43:02 PM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

Expert

Released to Imaging: 7/20/2021 9:09:57 AM

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SDG: TE034821014

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QC Association Summary	44
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Client: WSP USA Inc. Project/Site: Longview 12-15

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Job ID: 890-567-1
SDG: TE034821014

Qualifiers

Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VC	Α	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	9
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	13
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	

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

Job ID: 890-567-1 SDG: TE034821014

Page 40 of 150

Job ID: 890-567-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-567-1

Receipt

The samples were received on 4/23/2021 10:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-567-1), PH01 (890-567-2), PH01 (890-567-3), PH01 (890-567-4), PH01 (890-567-5), PH02 (890-567-6), PH02 (890-567-7), PH03 (890-567-8), PH03 (890-567-9), PH04 (890-567-10), PH04 (890-567-11), PH05 (890-567-12), PH05 (890-567-13), PH06 (890-567-14), PH06 (890-567-15), PH07 (890-567-16), PH07 (890-567-17), PH08 (890-567-18), PH08 (890-567-19), PH09 (890-567-20), PH09 (890-567-21), FS02 (890-567-22), SW01 (890-567-23), SW02 (890-567-24), SW03 (890-567-25), SW04 (890-567-26), FS01 (890-567-27), FS03 (890-567-28), FS04 (890-567-29), FS05 (890-567-30), FS06 (890-567-31), FS07 (890-567-32), FS08 (890-567-33), FS09 (890-567-34), SW05 (890-567-35) and SW06 (890-567-36).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-2338 and analytical batch 880-2315 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: PH01 Date Collected: 04/21/21 08:26 Date Received: 04/23/21 10:07 Sample Depth: -1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/26/21 08:44	04/26/21 21:03	1
1,4-Difluorobenzene (Surr)	111		70 - 130				04/26/21 08:44	04/26/21 21:03	1

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics <49.9 U F1 04/26/21 11:10 04/26/21 19:06 49.9 mg/Kg 1 (GRO)-C6-C10 **Diesel Range Organics (Over** <49.9 U 49.9 04/26/21 11:10 04/26/21 19:06 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) 49.9 04/26/21 11:10 04/26/21 19:06 <49.9 U mg/Kg Total TPH <49.9 U 04/26/21 11:10 04/26/21 19:06 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 105 70 - 130 04/26/21 11:10 04/26/21 19:06 1 112 70 - 130 04/26/21 11:10 04/26/21 19:06 o-Terphenyl 1

ſ	_ Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solut	ole						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	7190		49.5		mg/Kg			04/28/21 13:59	10

Client Sample ID: PH01 Date Collected: 04/21/21 08:28 Date Received: 04/23/21 10:07 Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/26/21 10:30	04/27/21 04:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 04:30	1

Lab Sample ID: 890-567-2

Matrix: Solid

Page 41 of 150

5

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-1 Matrix: Solid

Released to Imaging: 7/20/2021 9:09:57 AM

Client: WSP USA Inc.

Gasoline Range Organics

Diesel Range Organics (Over

Analyte

(GRO)-C6-C10

RL

49.9

49.9

MDL Unit

mg/Kg

mg/Kg

Prepared

D

Job ID: 890-567-1 SDG: TE034821014

Analyzed

Lab Sample ID: 890-567-2 Matrix: Solid

04/26/21 11:10 04/26/21 20:10

04/26/21 11:10 04/26/21 20:10

Dil Fac

1

1

1 С 5

Client Sample ID: PH01 Date Collected: 04/21/21 08:28 Date Received: 04/23/21 10:07 Sample Depth: - 2

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

Result Qualifier

<49.9 U

<49.9 U

Project/Site: Longview 12-15

					iiig/itg		04/20/21 11.10		
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	П	49.9		mg/Kg		04/26/21 11.10	04/26/21 20:10	
Total TPH	<49.9		49.9		mg/Kg			04/26/21 20:10	
	\$0.0	0	40.0		iiig/itg		04/20/21 11:10	04/20/21 20:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	110		70 - 130				04/26/21 11:10	04/26/21 20:10	
o-Terphenyl	116		70 - 130				04/26/21 11:10	04/26/21 20:10	
Method: 300.0 - Anions, Ion C	-	· ·		MDI	11		Durana d	A	
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 04/28/21 13:53	Dil Fac
Chloride	3680		24.8		mg/Kg			04/20/21 13:55	:
Client Sample ID: PH01 ate Collected: 04/21/21 08:40 ate Received: 04/23/21 10:07 ample Depth: - 4							Lab Sam	ple ID: 890- Matrix	
Method: 8021B - Volatile Orga		unds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199		0.00199		mg/Kg		•	04/27/21 04:50	
Toluene	< 0.00199		0.00199		mg/Kg			04/27/21 04:50	
Ethylbenzene	<0.00199		0.00199		mg/Kg			04/27/21 04:50	
m-Xylene & p-Xylene	<0.00199		0.00398		mg/Kg			04/27/21 04:50	
o-Xylene	<0.00390		0.00199		mg/Kg			04/27/21 04:50	
Xylenes, Total	<0.00199		0.00398		mg/Kg			04/27/21 04:50	
Total BTEX	<0.00398		0.00398		mg/Kg			04/27/21 04:50	
	0.00000	C C	0.00000				0.120121 10100	0.12.72.10.100	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130				04/26/21 10:30	04/27/21 04:50	
1,4-Difluorobenzene (Surr)	109		70 - 130				04/26/21 10:30	04/27/21 04:50	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/26/21 11:10	04/26/21 20:31	1
GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/26/21 11:10	04/26/21 20:31	1
C10-C28)									
	<49.8	U	49.8		mg/Kg		04/26/21 11:10	04/26/21 20:31	
Oll Range Organics (Over C28-C36)					mg/Kg		04/26/21 11:10	04/26/21 20:31	
	<49.8	U	49.8						
Total TPH			49.8 <i>Limits</i>				Prepared		Dil Fa
Total TPH Surrogate	<49.8						Prepared 04/26/21 11:10	Analyzed 04/26/21 20:31	
Total TPH Surrogate 1-Chlorooctane	<49.8 %Recovery		Limits				04/26/21 11:10	Analyzed	1
Total TPH Surrogate 1-Chlorooctane p-Terphenyl	<49.8 %Recovery 110 111	Qualifier	Limits 70 - 130 70 - 130				04/26/21 11:10	Analyzed 04/26/21 20:31	
Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C Analyte	<49.8 <u>%Recovery</u> 110 111 hromatogra	Qualifier	Limits 70 - 130 70 - 130	MDL		D	04/26/21 11:10	Analyzed 04/26/21 20:31	Dil Fac

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: PH01 Date Collected: 04/21/21 08:55 Date Received: 04/23/21 10:07 Sample Depth: - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 05:11	
Toluene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 05:11	•
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 05:11	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/26/21 10:30	04/27/21 05:11	
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 05:11	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/26/21 10:30	04/27/21 05:11	
Total BTEX	<0.00396	U	0.00396		mg/Kg		04/26/21 10:30	04/27/21 05:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				04/26/21 10:30	04/27/21 05:11	
1,4-Difluorobenzene (Surr)	107		70 - 130				04/26/21 10:30	04/27/21 05:11	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 20:52	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 20:52	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 20:52	1	
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 20:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	110		70 - 130				04/26/21 11:10	04/26/21 20:52	1	
o-Terphenyl	112		70 - 130				04/26/21 11:10	04/26/21 20:52	1	

1	Method: 300.0 - Anio	ons, Ion Chromatography - Soluble			
I	Δnalvte	Result Qualifier	RI	MDI Unit	р

	Analyte	Result	Quanner			 riepareu	Analyzeu	Dirrac
L	Chloride	4930		24.9	mg/Kg		04/28/21 14:26	5

Client Sample ID: PH01 Date Collected: 04/21/21 09:06 Date Received: 04/23/21 10:07 Sample Depth: - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 05:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 05:31	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/26/21 10:30	04/27/21 05:31	1

Eurofins Xenco, Carlsbad

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-4

Analyzod

Lab Sample ID: 890-567-5

Dil Eac

Matrix: Solid

Dronarod

Matrix: Solid

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-5 Matrix: Solid

Date Collected: 04/21/21 09:06 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Client Sample ID: PH01

Sample Depth: - 6

Client: WSP USA Inc.

Method: 8015B NM - Diesel Ra Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Analyte	Result	Quaimer	KL	WDL	Unit		Frepareu	Analyzeu	DIFAC
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/26/21 11:10	04/26/21 21:14	1
o-Terphenyl	113		70 - 130				04/26/21 11:10	04/26/21 21:14	1

Method: 300.0 - Anions, Ion Chromatogra

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580	5.00	mg/Kg			05/03/21 17:42	1

Client Sample ID: PH02

Date Collected: 04/21/21 09:29 Date Received: 04/23/21 10:07 Sample Depth: -1

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/26/21 10:30	04/27/21 05:52	1

Method: 8015B NM - Diesel Range Organi

109

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:35	1
<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:35	1
<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:35	1
<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:35	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
110		70 - 130				04/26/21 11:10	04/26/21 21:35	1
118		70 - 130				04/26/21 11:10	04/26/21 21:35	1
1	<50.0 <50.0 <50.0 6 Recovery 110		<50.0 U 50.0 <50.0 U 50.0 <50.0 U 50.0 6Recovery Qualifier Limits 110 70-130	<50.0 U 50.0 <50.0 U 50.0 <50.0 U 50.0 50.0 U 50.0 50.0 GRecovery Qualifier Limits 70 - 130	<50.0	<50.0	$ \begin{array}{c ccccc} <50.0 & U & 50.0 & mg/Kg & 04/26/21 & 11:10 \\ <50.0 & U & 50.0 & mg/Kg & 04/26/21 & 11:10 \\ <50.0 & U & 50.0 & mg/Kg & 04/26/21 & 11:10 \\ \hline & & & & & & \\ \hline & & & & & \\ \hline & & & &$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5650		25.0		mg/Kg			04/28/21 14:36	5

Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1	
U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1	
U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1	
U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:14	1	8
Qualifier	Limits				Prepared	Analyzed	Dil Fac	9
	70 - 130				04/26/21 11:10	04/26/21 21:14	1	
	70 - 130				04/26/21 11:10	04/26/21 21:14	1	
aphy - Solu	ble							
Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	5.00		mg/Kg			05/03/21 17:42	1	
						ple ID: 890 Matrix	: Solid	13
unds (GC)			11		Durand	Angeland		
Qualifier	RL 0.00200	MDL		D	Prepared 04/26/21 10:30	Analyzed 04/27/21 05:52	Dil Fac	
U	0.00200		mg/Kg			04/27/21 05:52		
U	0.00200		mg/Kg mg/Kg		04/26/21 10:30 04/26/21 10:30	04/27/21 05:52	1 1	
U	0.00200		mg/Kg			04/27/21 05:52		
U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 05:52	1	
U	0.00200		mg/Kg			04/27/21 05:52	1	
U	0.00401		mg/Kg			04/27/21 05:52	1	
Qualifier	Limits				Prepared	Analyzed	Dil Fac	
	70 - 130				04/26/21 10:30		1	
	70 - 130				04/26/21 10:30	04/27/21 05:52	1	
ics (DRO) ((GC)							
Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:35	1	
U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:35	1	
U	50.0		ma/Ka		04/26/21 11.10	04/26/21 21:35	1	

Client: WSP USA Inc.

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Project/Site: Longview 12-15

RL

0.00202

0.00202

0.00202

0.00403

0.00202

0.00403

0.00403

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

Prepared

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

04/26/21 10:30 04/27/21 06:12

Job ID: 890-567-1 SDG: TE034821014

Client Sample ID: PH02 Date Collected: 04/21/21 09:32 Date Received: 04/23/21 10:07 Sample Depth: - 2

Lab Sample ID: 890-567-7 Matrix: Solid

Analyzed

Analyzed

4 5

Dil Fac

1

1

1

1

1

1

1

1

1

Dil Fac

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00403 U

<0.00202 U

<0.00403 U

<0.00403 U

%Recovery Qualifier

106

106

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:56	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:56	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:56	1	
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 21:56	1	
• ·	~~ -									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	114		70 - 130				04/26/21 11:10	04/26/21 21:56	1	
o-Terphenyl	118		70 - 130				04/26/21 11:10	04/26/21 21:56	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.0	4.95	mg/Kg			04/28/21 14:53	1

Client Sample ID: PH03 Date Collected: 04/21/21 09:50 Date Received: 04/23/21 10:07 Sample Depth: - 0.5

Lab Sample ID: 890-567-8 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/26/21 10:30	04/27/21 06:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/26/21 10:30	04/27/21 06:32	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/26/21 10:30	04/27/21 06:32	1

Job ID: 890-567-1 SDG: TE034821014

Matrix: Solid

Lab Sample ID: 890-567-8

Lab Sample ID: 890-567-9

04/26/21 10:30 04/27/21 06:53

Matrix: Solid

1

Client Sample ID: PH03 Date Collected: 04/21/21 09:50 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Sample Depth: - 0.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:17	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				04/26/21 11:10	04/26/21 22:17	1
o-Terphenyl	115		70 - 130				04/26/21 11:10	04/26/21 22:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406	4.98	mg/Kg			04/28/21 14:58	1

Client Sample ID: PH03

Date Collected: 04/21/21 09:53 Date Received: 04/23/21 10:07 Sample Depth: - 1

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202		0.00202		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 06:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 06:53	1

70 - 130

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

106

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:38	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/26/21 11:10	04/26/21 22:38	1
o-Terphenyl	116		70 - 130				04/26/21 11:10	04/26/21 22:38	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Quaimer	RL	WIDL	Unit	U	Prepared	Analyzed	DIFac	
Chloride	212		5.00		mg/Kg			05/03/21 17:47	1	

Job ID: 890-567-1 SDG: TE034821014

Client Sample ID: PH04 Date Collected: 04/21/21 09:58 Date Received: 04/23/21 10:07

Lab Sample ID: 890-567-10 Matrix: Solid

Sample Depth: - 0.5

Project/Site: Longview 12-15

Client: WSP USA Inc.

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 07:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130				04/26/21 10:30	04/27/21 07:13	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 07:13	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 23:00	1
	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 23:00	1
Oll Range Organics (Over C28-C36)									
Oll Range Organics (Over C28-C36) Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/26/21 23:00	1
· · · · · · · · · · · · · · · · · · ·	<50.0 %Recovery		50.0 Limits		mg/Kg		04/26/21 11:10 <i>Prepared</i>	04/26/21 23:00 Analyzed	1 Dil Fac
Total TPH					mg/Kg				
Total TPH Surrogate	%Recovery		Limits		mg/Kg		Prepared 04/26/21 11:10	Analyzed	Dil Fac
Total TPH Surrogate 1-Chlorooctane	%Recovery 110 112	Qualifier	Limits 70 - 130 70 - 130		mg/Kg		Prepared 04/26/21 11:10	Analyzed 04/26/21 23:00	Dil Fac
Total TPH Surrogate 1-Chlorooctane p-Terphenyl	%Recovery 110 112 Chromatogra	Qualifier	Limits 70 - 130 70 - 130	MDL	mg/Kg Unit	D	Prepared 04/26/21 11:10	Analyzed 04/26/21 23:00	Dil Fac

Sample Depth: -1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/26/21 10:30	04/27/21 07:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 07:34	1

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Client Sample ID: PH04 Date Collected: 04/21/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 23:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 23:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 23:42	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/26/21 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/26/21 11:10	04/26/21 23:42	1
o-Terphenyl	116		70 - 130				04/26/21 11:10	04/26/21 23:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Quaimer r	RL MI	DL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		98	mg/Kg			04/28/21 15:25	1

Client Sample ID: PH05

Date Collected: 04/21/21 10:07 Date Received: 04/23/21 10:07 Sample Depth: - 0.5

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/26/21 10:30	04/27/21 10:05	1

70 - 130

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

107

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/27/21 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/27/21 00:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/27/21 00:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 11:10	04/27/21 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/26/21 11:10	04/27/21 00:03	1
o-Terphenyl	116		70 - 130				04/26/21 11:10	04/27/21 00:03	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.62	4.96	mg/Kg			04/28/21 15:30	1

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-11

Lab Sample ID: 890-567-12

04/26/21 10:30 04/27/21 10:05

Matrix: Solid

1

Matrix: Solid

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

0.00398

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

Prepared

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

04/26/21 10:30 04/27/21 10:25

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

<0.00398 U

%Recovery Qualifier

107

107

Client Sample ID: PH05 Date Collected: 04/21/21 10:08 Date Received: 04/23/21 10:07 Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Job ID: 890-567-1
SDG: TE034821014

Lab Sample ID: 890-567-13

Analyzed

Analyzed

Matrix: Solid

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Dil Fac

1

1

1

1

1

1

1

1

1

Dil Fac

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

			()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 00:24	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 00:24	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 00:24	1	
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 00:24	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	106		70 - 130				04/26/21 11:10	04/27/21 00:24	1	
o-Terphenyl	110		70 - 130				04/26/21 11:10	04/27/21 00:24	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103	4.98	mg/Kg			05/06/21 17:00	1

Client Sample ID: PH06 Date Collected: 04/21/21 10:12 Date Received: 04/23/21 10:07 Sample Depth: - 0.5

Lab Sample ID: 890-567-14 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 10:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/26/21 10:30	04/27/21 10:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 10:46	1

RL

50.0

50.0

50.0

50.0

RL

5.02

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

Prepared

Prepared

04/26/21 11:10 04/27/21 00:45

04/26/21 11:10 04/27/21 00:45

04/26/21 11:10 04/27/21 00:45

04/26/21 11:10 04/27/21 00:45

04/26/21 11:10 04/27/21 00:45

04/26/21 11:10 04/27/21 00:45

04/26/21 10:30 04/27/21 11:06

Job ID: 890-567-1 SDG: TE034821014

Client Sample ID: PH06 Date Collected: 04/21/21 10:12 Date Received: 04/23/21 10:07

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

114

118

291

106

Result Qualifier

Project/Site: Longview 12-15

Client: WSP USA Inc.

Sample Depth: - 0.5

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Total TPH

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Lab Sample ID: 890-567-14 Matrix: Solid

Analyzed

Analyzed

Analyzed

05/03/21 17:53

Lab Sample ID: 890-567-15

5

Dil Fac

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

Client Sample ID: PH06

1,4-Difluorobenzene (Surr)

Date Collected: 04/21/21 10:20 Date Received: 04/23/21 10:07 Sample Depth: -1

Method: 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	< 0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
Toluene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 11:06	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	106		70 - 130				04/26/21 10:30	04/27/21 11:06	1		

70 - 130

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 01:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 01:06	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 01:06	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:10	04/27/21 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/26/21 11:10	04/27/21 01:06	1
o-Terphenyl	119		70 - 130				04/26/21 11:10	04/27/21 01:06	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139	4.98	mg/Kg			05/03/21 17:58	1

Job ID: 890-567-1 SDG: TE034821014

Client Sample ID: PH07 Date Collected: 04/21/21 10:25 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Lab Sample ID: 890-567-16 Matrix: Solid

Sample Depth: - 0.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 10:30	04/27/21 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130				04/26/21 10:30	04/27/21 11:26	
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 11:26	·
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
	• <u>-</u>	- ` <i>`</i>	· · ·		11	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit	U	Flepaleu	Analyzeu	Burray
Gasoline Range Organics			RL	MDL	mg/Kg		04/26/21 11:10	04/27/21 01:26	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL			04/26/21 11:10		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.1	U U	50.1	MDL	mg/Kg		04/26/21 11:10 04/26/21 11:10	04/27/21 01:26	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.1 <50.1	U U U	50.1	MDL	mg/Kg mg/Kg		04/26/21 11:10 04/26/21 11:10 04/26/21 11:10	04/27/21 01:26 04/27/21 01:26	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<50.1 <50.1 <50.1		50.1 50.1 50.1	MDL	mg/Kg mg/Kg mg/Kg		04/26/21 11:10 04/26/21 11:10 04/26/21 11:10	04/27/21 01:26 04/27/21 01:26 04/27/21 01:26	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	<50.1 <50.1 <50.1 <50.1		50.1 50.1 50.1 50.1	<u>MDL</u>	mg/Kg mg/Kg mg/Kg	_	04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10	04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.1 <50.1 <50.1 <50.1 <50.1 %Recovery		50.1 50.1 50.1 50.1 <i>Limits</i>	<u>MDL</u>	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 Prepared 04/26/21 11:10	04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 Analyzed	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.1 <50.1 <50.1 <50.1 <50.1 %Recovery 110 119	U U U Qualifier	50.1 50.1 50.1 50.1 <u>Limits</u> 70 - 130 70 - 130	<u>MDL</u>	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 Prepared 04/26/21 11:10	04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 Analyzed 04/27/21 01:26	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.1 <50.1 <50.1 <50.1 <50.1 <i>%Recovery</i> 110 119 Chromatogra	U U U Qualifier	50.1 50.1 50.1 50.1 <u>Limits</u> 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	D	04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 04/26/21 11:10 Prepared 04/26/21 11:10	04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 04/27/21 01:26 Analyzed 04/27/21 01:26	Dil Fa

Sample Depth: -1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/26/21 10:30	04/27/21 11:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 11:47	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 11:47	1

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RL

50.0

50.0

50.0

50.0

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

Prepared

04/26/21 11:10 04/27/21 01:47

04/26/21 11:10 04/27/21 01:47

04/26/21 11:10 04/27/21 01:47

04/26/21 11:10 04/27/21 01:47

04/26/21 11:10 04/27/21 01:47

04/26/21 11:10 04/27/21 01:47

04/26/21 10:30 04/27/21 12:07

Client Sample ID: PH07 Date Collected: 04/21/21 10:28

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Total TPH

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

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

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-17

Analyzed

Analyzed

Analyzed

04/28/21 22:24

Lab Sample ID: 890-567-18

Matrix: Solid

Dil Fac

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

5

Method: 300.0) - Anions, Ion Chromatogr	aphy - Solul	ble				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Chloride	12.9		4.98		mg/Kg		

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

110

115

110

Client Sample ID: PH08

Date Collected: 04/21/21 10:32 Date Received: 04/23/21 10:07 Sample Depth: - 0.5

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	< 0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
Toluene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/26/21 10:30	04/27/21 12:07	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)			70 - 130				04/26/21 10:30	04/27/21 12:07	1			

70 - 130

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 11:11	04/27/21 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 11:11	04/27/21 02:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 11:11	04/27/21 02:08	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 11:11	04/27/21 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/26/21 11:11	04/27/21 02:08	1
o-Terphenyl	113		70 - 130				04/26/21 11:11	04/27/21 02:08	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	U	Prepared	Analyzed	DilFac
Chloride	79.8	4.97	mg/Kg			04/28/21 19:04	1

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

0.00399

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Job ID: 890-567-1 SDG: TE034821014

Analyzed

Analyzed

Client Sample ID: PH08 Date Collected: 04/21/21 10:34 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

04/26/21 10:30 04/27/21 12:28

Prepared

Prepared

Dil Fac

1

1

1

1

1

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<0.00399 U

%Recovery Qualifier

108

109

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/21 11:11	04/27/21 02:29	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/26/21 11:11	04/27/21 02:29	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 11:11	04/27/21 02:29	1	
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 11:11	04/27/21 02:29	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	118		70 - 130				04/26/21 11:11	04/27/21 02:29	1	
o-Terphenyl	119		70 - 130				04/26/21 11:11	04/27/21 02:29	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.9	5.00	mg/Kg			04/28/21 19:09	1

Client Sample ID: PH09 Date Collected: 04/21/21 10:45 Date Received: 04/23/21 10:07 Sample Depth: - 0.5

Lab Sample ID: 890-567-20 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/26/21 10:30	04/27/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/26/21 10:30	04/27/21 12:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/26/21 10:30	04/27/21 12:48	1

Client Sample ID: PH09 Date Collected: 04/21/21 10:45

Date Received: 04/23/21 10:07 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/26/21 11:11	04/27/21 02:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/26/21 11:11	04/27/21 02:50	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/26/21 11:11	04/27/21 02:50	1
Total TPH	<50.1	U	50.1		mg/Kg		04/26/21 11:11	04/27/21 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				04/26/21 11:11	04/27/21 02:50	1
o-Terphenyl	120		70 - 130				04/26/21 11:11	04/27/21 02:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0	4	.99		mg/Kg			04/28/21 19:14	1

Client Sample ID: PH09

Date Collected: 04/21/21 10:47 Date Received: 04/23/21 10:07 Sample Depth: -1

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		04/26/21 10:30	04/27/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/26/21 10:30	04/27/21 13:09	1

70 - 130

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

109

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U F1	49.9		mg/Kg		04/26/21 13:23	04/26/21 19:06	1
<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 19:06	1
<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 19:06	1
<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 19:06	1
Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
103		70 - 130				04/26/21 13:23	04/26/21 19:06	1
105		70 - 130				04/26/21 13.23	04/26/21 19:06	1
	<49.9 <49.9 <49.9 Recovery 103		<49.9 U	<49.9	<49.9	<49.9	<49.9 U 49.9 mg/Kg 04/26/21 13:23 <49.9	<49.9 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.99		mg/Kg			04/28/21 19:30	1

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-20

Lab Sample ID: 890-567-21

04/26/21 10:30 04/27/21 13:09

Matrix: Solid

1

Matrix: Solid

Client: WSP USA Inc.

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

0.00398

Limits

70 - 130

70 - 130

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

Prepared

Job ID: 890-567-1 SDG: TE034821014

Client Sample ID: FS02 Date Collected: 04/21/21 14:56 Date Received: 04/23/21 10:07 Sample Depth: 1 - 2

Project/Site: Longview 12-15

Lab Sample ID: 890-567-22 Matrix: Solid

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

04/26/21 15:48 04/27/21 01:06

Analyzed

Analyzed

Dil Fac

1

1

1

1

1

1

1

1

1

Dil Fac

8	
9	

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00199 U *- *1

<0.00199 U*-*1

<0.00199 U*-*1

<0.00398 U*-*1

<0.00199 U*-*1

<0.00398 U*-*1

<0.00398 U*-*1

%Recovery Qualifier

90

97

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 20:10	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	52.6		49.9		mg/Kg		04/26/21 13:23	04/26/21 20:10	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 20:10	1	
Total TPH	52.6		49.9		mg/Kg		04/26/21 13:23	04/26/21 20:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	103		70 - 130				04/26/21 13:23	04/26/21 20:10	1	
o-Terphenyl	105		70 - 130				04/26/21 13:23	04/26/21 20:10	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260	25.0	mg/Kg			04/28/21 19:35	5

Client Sample ID: SW01 Date Collected: 04/21/21 16:14 Date Received: 04/23/21 10:07 Sample Depth: 0 - 4

Lab Sample ID: 890-567-23 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U *- *1	0.00200	m	ig/Kg		04/26/21 15:48	04/27/21 01:27	1
Toluene	<0.00200	U *- *1	0.00200	m	ig/Kg		04/26/21 15:48	04/27/21 01:27	1
Ethylbenzene	<0.00200	U *- *1	0.00200	m	ig/Kg		04/26/21 15:48	04/27/21 01:27	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400	m	ng/Kg		04/26/21 15:48	04/27/21 01:27	1
o-Xylene	<0.00200	U *- *1	0.00200	m	ig/Kg		04/26/21 15:48	04/27/21 01:27	1
Xylenes, Total	<0.00400	U *- *1	0.00400	m	ng/Kg		04/26/21 15:48	04/27/21 01:27	1
Total BTEX	<0.00400	U *- *1	0.00400	m	ng/Kg		04/26/21 15:48	04/27/21 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/26/21 15:48	04/27/21 01:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/26/21 15:48	04/27/21 01:27	1

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Released to Imaging: 7/20/2021 9:09:57 AM

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: SW01 Date Collected: 04/21/21 16:14 Date Received: 04/23/21 10:07

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/26/21 13:23	04/26/21 20:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/26/21 13:23	04/26/21 20:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/26/21 13:23	04/26/21 20:31	1
Total TPH	<49.8	U	49.8		mg/Kg		04/26/21 13:23	04/26/21 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/26/21 13:23	04/26/21 20:31	1
o-Terphenyl	106		70 - 130				04/26/21 13:23	04/26/21 20:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	219		5.02		mg/Kg				04/28/21 19:40	1

Client Sample ID: SW02

Date Collected: 04/21/21 15:47 Date Received: 04/23/21 10:07 Sample Depth: 0 - 4

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
Xylenes, Total	< 0.00399	U *- *1	0.00399		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
Total BTEX	<0.00399	U *- *1	0.00399		mg/Kg		04/26/21 15:48	04/27/21 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/26/21 15:48	04/27/21 01:47	1

70 - 130

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

117

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 20:52	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 20:52	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 20:52	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/26/21 13:23	04/26/21 20:52	1
o-Terphenyl	98		70 - 130				04/26/21 13:23	04/26/21 20:52	1
_ Method: 300.0 - Anions, Ion C	hromatogra	nhy - Soli	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	315		5.04		mg/Kg			04/28/21 19:45	1

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-23

Lab Sample ID: 890-567-24

04/26/21 15:48 04/27/21 01:47

Matrix: Solid

1

Matrix: Solid

Job ID: 890-567-1 SDG: TE034821014

Client Sample ID: SW03 Date Collected: 04/21/21 15:56 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Sample Depth: 0 - 4

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
Xylenes, Total	<0.00404	U *- *1	0.00404		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
Total BTEX	<0.00404	U *- *1	0.00404		mg/Kg		04/26/21 15:48	04/27/21 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/26/21 15:48	04/27/21 02:08	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/26/21 15:48	04/27/21 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:14	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:14	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:14	1	
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:14	1	
	~~ -									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	109		70 - 130				04/26/21 13:23	04/26/21 21:14	1	
o-Terphenyl	108		70 - 130				04/26/21 13:23	04/26/21 21:14	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131	5.05	mg/Kg			04/28/21 19:50	1

Client Sample ID: SW04 Date Collected: 04/21/21 16:03 Date Received: 04/23/21 10:07 Sample Depth: 0 - 4

Lab Sample ID: 890-567-26 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
m-Xylene & p-Xylene	< 0.00403	U *- *1	0.00403		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
Xylenes, Total	< 0.00403	U *- *1	0.00403		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
Total BTEX	<0.00403	U *- *1	0.00403		mg/Kg		04/26/21 15:48	04/27/21 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/26/21 15:48	04/27/21 02:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/26/21 15:48	04/27/21 02:28	1

Lab Sample ID: 890-567-25 Matrix: Solid

Client Sample ID: SW04 Date Collected: 04/21/21 16:03 Date Received: 04/23/21 10:07

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:35	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/26/21 13:23	04/26/21 21:35	1
o-Terphenyl	102		70 - 130				04/26/21 13:23	04/26/21 21:35	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<i>i</i> mary to									

Client Sample ID: FS01

Date Collected: 04/22/21 08:17 Date Received: 04/23/21 10:07 Sample Depth: 1 - 2

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *- *1	0.00199	mg/Kg	9	04/26/21 15:48	04/27/21 02:49	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg	9	04/26/21 15:48	04/27/21 02:49	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg	9	04/26/21 15:48	04/27/21 02:49	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg	3	04/26/21 15:48	04/27/21 02:49	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg	9	04/26/21 15:48	04/27/21 02:49	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg	9	04/26/21 15:48	04/27/21 02:49	1
Total BTEX	<0.00398	U *- *1	0.00398	mg/Kợ	9	04/26/21 15:48	04/27/21 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/26/21 15:48	04/27/21 02:49	1

70 - 130

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

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:56	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/26/21 13:23	04/26/21 21:56	1
o-Terphenyl	104		70 - 130				04/26/21 13:23	04/26/21 21:56	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Q	Qualifier F		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3450	24	9	mg/Kg	_		04/28/21 20:11	5

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-26

Lab Sample ID: 890-567-27

04/26/21 15:48 04/27/21 02:49

Matrix: Solid

1

Matrix: Solid

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: FS03 Date Collected: 04/22/21 14:32 Date Received: 04/23/21 10:07 Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
Xylenes, Total	<0.00400	U *- *1	0.00400		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
Total BTEX	<0.00400	U *- *1	0.00400		mg/Kg		04/26/21 15:48	04/27/21 03:09	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	106		70 - 130				04/26/21 15:48	04/27/21 03:09	1			
1.4-Difluorobenzene (Surr)	116		70 - 130				04/26/21 15:48	04/27/21 03:09	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:17	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:17	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:17	1	
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:17	1	
		_								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	98		70 - 130				04/26/21 13:23	04/26/21 22:17	1	
o-Terphenyl	98		70 - 130				04/26/21 13:23	04/26/21 22:17	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3870	24.8	mg/Kg			04/28/21 20:16	5

Client Sample ID: FS04 Date Collected: 04/22/21 14:55 Date Received: 04/23/21 10:07 Sample Depth: - 4

Lab Sample ID: 890-567-29 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U *- *1 0.00201 04/26/21 15:48 04/27/21 03:30 mg/Kg 1 Toluene <0.00201 U*-*1 0.00201 04/26/21 15:48 04/27/21 03:30 mg/Kg 1 Ethylbenzene 04/26/21 15:48 04/27/21 03:30 <0.00201 U*-*1 0.00201 mg/Kg 1 m-Xylene & p-Xylene <0.00402 U*-*1 0.00402 mg/Kg 04/26/21 15:48 04/27/21 03:30 1 o-Xylene <0.00201 U*-*1 0.00201 mg/Kg 04/26/21 15:48 04/27/21 03:30 1 Xylenes, Total 0.00402 <0.00402 U*-*1 mg/Kg 04/26/21 15:48 04/27/21 03:30 1 Total BTEX <0.00402 U*-*1 0.00402 mg/Kg 04/26/21 15:48 04/27/21 03:30 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 106 70 - 130 04/26/21 15:48 04/27/21 03:30 1 1,4-Difluorobenzene (Surr) 106 70 - 130 04/26/21 15:48 04/27/21 03:30 1

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-28

Matrix: Solid

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: FS04 Date Collected: 04/22/21 14:55

Date Received: 04/23/21 10:07

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:38	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/26/21 13:23	04/26/21 22:38	1
o-Terphenyl	101		70 - 130				04/26/21 13:23	04/26/21 22:38	1

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3540		24.8		mg/Kg			04/28/21 20:32	5

Client Sample ID: FS05

1,4-Difluorobenzene (Surr)

Date Collected: 04/22/21 14:37 Date Received: 04/23/21 10:07 Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
Toluene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
Xylenes, Total	<0.00400	U *- *1	0.00400		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
Total BTEX	<0.00400	U *- *1	0.00400		mg/Kg		04/26/21 15:48	04/27/21 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/26/21 15:48	04/27/21 04:51	1

70 - 130

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

104

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 23:00	1
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 23:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 23:00	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/26/21 13:23	04/26/21 23:00	1
o-Terphenyl	96		70 - 130				04/26/21 13:23	04/26/21 23:00	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3630	25.2	mg/Kg			04/28/21 20:37	5

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-29

Lab Sample ID: 890-567-30

04/26/21 15:48 04/27/21 04:51

Matrix: Solid

1

Matrix: Solid

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: FS06 Date Collected: 04/22/21 16:27 Date Received: 04/23/21 10:07 Sample Depth: - 4

Method: 8021B - Volatile Orga	anic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
Total BTEX	<0.00398	U *- *1	0.00398		mg/Kg		04/26/21 15:48	04/27/21 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/26/21 15:48	04/27/21 05:12	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/26/21 15:48	04/27/21 05:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:48	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:48	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0		50.0		mg/Kg			04/26/21 16:48	1	
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:48	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	93		70 - 130				04/26/21 08:55	04/26/21 16:48	1	
o-Terphenyl	100		70 - 130				04/26/21 08:55	04/26/21 16:48	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6170	50.2	mg/Kg			04/28/21 20:42	10

Client Sample ID: FS07 Date Collected: 04/22/21 16:38 Date Received: 04/23/21 10:07 Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
Xylenes, Total	<0.00404	U *- *1	0.00404		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
Total BTEX	<0.00404	U *- *1	0.00404		mg/Kg		04/26/21 15:48	04/27/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/26/21 15:48	04/27/21 05:32	1
1,4-Difluorobenzene (Surr)	114		70 - 130				04/26/21 15:48	04/27/21 05:32	1

Lab Sample ID: 890-567-32

Matrix: Solid

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-31

Matrix: Solid

Released to Imaging: 7/20/2021 9:09:57 AM

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: FS07 Date Collected: 04/22/21 16:38

Date Received: 04/23/21 10:07

Sample Depth: - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:10	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/26/21 08:55	04/26/21 17:10	1
o-Terphenyl	99		70 - 130				04/26/21 08:55	04/26/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10100	50.3	mg/Kg			04/28/21 20:47	10

Client Sample ID: FS08

1,4-Difluorobenzene (Surr)

Date Collected: 04/22/21 16:15 Date Received: 04/23/21 10:07 Sample Depth: - 4

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
Toluene	<0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
Ethylbenzene	< 0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
m-Xylene & p-Xylene	< 0.00403	U *- *1	0.00403		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
o-Xylene	< 0.00202	U *- *1	0.00202		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
Xylenes, Total	< 0.00403	U *- *1	0.00403		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
Total BTEX	<0.00403	U *- *1	0.00403		mg/Kg		04/26/21 15:48	04/27/21 05:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/26/21 15:48	04/27/21 05:53	1

70 - 130

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

108

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 17:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 17:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 17:32	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/26/21 08:55	04/26/21 17:32	1
o-Terphenyl	101		70 - 130				04/26/21 08:55	04/26/21 17:32	1
_ Method: 300.0 - Anions, Ion C	hromatoura	nhy - Solu	ible						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11100	100	mg/Kg			05/04/21 19:10	20

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-32 Matrix: Solid

Lab Sample ID: 890-567-33

04/26/21 15:48 04/27/21 05:53

Matrix: Solid

rix: 50110

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: FS09 Date Collected: 04/22/21 16:35 Date Received: 04/23/21 10:07 Sample Depth: - 4

Method: 8021B - Volatile Or	ganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
Xylenes, Total	< 0.00402	U *- *1	0.00402		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
Total BTEX	<0.00402	U *- *1	0.00402		mg/Kg		04/26/21 15:48	04/27/21 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				04/26/21 15:48	04/27/21 06:13	1
1,4-Difluorobenzene (Surr)	118		70 - 130				04/26/21 15:48	04/27/21 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:53	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:53	1	Ŀ
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0		50.0		mg/Kg			04/26/21 17:53	1	
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 17:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	90		70 - 130					04/26/21 17:53	1	
									,	
o-Terphenyl	100		70 - 130				04/20/21 08:55	04/26/21 17:53	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620	25.0	mg/Kg			04/28/21 20:58	5

Client Sample ID: SW05 Date Collected: 04/22/21 16:22 Date Received: 04/23/21 10:07 Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
Toluene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
Total BTEX	<0.00402	U *- *1	0.00402		mg/Kg		04/26/21 15:48	04/27/21 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/26/21 15:48	04/27/21 06:34	1
1,4-Difluorobenzene (Surr)	119		70 - 130				04/26/21 15:48	04/27/21 06:34	1

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-34

Matrix: Solid

Lab Sample ID: 890-567-35

Matrix: Solid

Client: WSP USA Inc. Project/Site: Longview 12-15

Client Sample ID: SW05 Date Collected: 04/22/21 16:22

Date Received: 04/23/21 10:07

Sample Depth: 0 - 4

Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 18:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 18:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 18:15	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 08:55	04/26/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/26/21 08:55	04/26/21 18:15	1
o-Terphenyl	105		70 - 130				04/26/21 08:55	04/26/21 18:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870	25.0	mg/Kg			04/28/21 21:03	5

Client Sample ID: SW06

Date Collected: 04/22/21 16:24 Date Received: 04/23/21 10:07 Sample Depth: 0 - 4

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
Toluene	<0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
Total BTEX	<0.00398	U *- *1	0.00398		mg/Kg		04/26/21 15:48	04/27/21 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/26/21 15:48	04/27/21 06:55	1

70 - 130

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

124

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 18:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 18:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 18:37	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/26/21 08:55	04/26/21 18:37	1
o-Terphenyl	102		70 - 130				04/26/21 08:55	04/26/21 18:37	1
_ Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7150	50.4	mg/Kg			04/28/21 23:24	10

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Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-35

Lab Sample ID: 890-567-36

04/26/21 15:48 04/27/21 06:55

Matrix: Solid

1

Matrix: Solid

Surrogate Summary

DFBZ1

(70-130)

111

108

104

105

109

107

107

109

106

107

106

108

108

107

107

108

106

108

108

110

109

108

109

97

99

117

110

95

107

116

106

104

110

114

108

118

119

124

103

111

105

BFB1

(70-130)

103

110

102

102

111

109

108

111

106

106

108

107

104

105

107

104

106

111

108

111

108

107

109

90

108

106

106

110

109

106

106

101

107

101

116

112

104

110

99

94

95

Client: WSP USA Inc. Project/Site: Longview 12-15

Lab Sample ID

890-567-2 MS

890-567-2 MSD

890-567-1

890-567-2

890-567-3

890-567-4

890-567-5

890-567-6

890-567-7

890-567-8

890-567-9

890-567-10

890-567-11

890-567-12

890-567-13

890-567-14

890-567-15

890-567-16

890-567-17

890-567-18

890-567-19

890-567-20

890-567-21

890-567-22

890-567-23

890-567-24

890-567-25

890-567-26

890-567-27

890-567-28

890-567-29

890-567-30

890-567-31

890-567-32

890-567-33

890-567-34

890-567-35

890-567-36

LCS 880-2227/1-A

LCS 880-2314/1-A

LCS 880-2338/1-A

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

Client Sample ID

PH01

PH01

PH01

PH01

PH01

PH01

PH01

PH02

PH02

PH03

PH03

PH04

PH04

PH05

PH05

PH06

PH06

PH07

PH07

PH08

PH08

PH09

PH09

FS02

SW01

SW02

SW03

SW04

FS01

FS03

FS04

FS05

FS06

FS07

FS08

FS09

SW05

SW06

Lab Control Sample

Lab Control Sample

Lab Control Sample

Surrogate Legend				
MB 880-2338/5-A	Method Blank	114	103	
MB 880-2322/5-A	Method Blank	99	102	
MB 880-2314/5-A	Method Blank	106	85	
MB 880-2227/5-A	Method Blank	100	101	
LCSD 880-2338/2-A	Lab Control Sample Dup	92	109	
LCSD 880-2314/2-A	Lab Control Sample Dup	95	107	
LCSD 880-2227/2-A	Lab Control Sample Dup	101	104	

Job ID: 890-567-1 SDG: TE034821014

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Job ID: 890-567-1 SDG: TE034821014

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Longview 12-15 BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

				rcent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-567-1	PH01	105	112	
390-567-1 MS	PH01	106	98	
390-567-1 MSD	PH01	106	98	
390-567-2	PH01	110	116	
390-567-3	PH01	110	111	
390-567-4	PH01	110	112	
390-567-5	PH01	109	113	
390-567-6	PH02	110	118	
390-567-7	PH02	114	118	
390-567-8	PH03	111	115	
90-567-9	PH03	114	116	
390-567-10	PH04	110	112	
890-567-11	PH04	113	116	
390-567-12	PH05	108	116	
390-567-13	PH05	106	110	
390-567-14	PH06	114	118	
390-567-15	PH06	114	119	
390-567-16	PH07	110	119	
390-567-17	PH07	110	115	
890-567-18	PH08	110	113	
390-567-19	PH08	118	119	
890-567-20	PH09	111	120	
90-567-21	PH09	103	105	
890-567-21 MS	PH09	109	101	
390-567-21 MSD	PH09	104	97	
390-567-22	FS02	103	105	
390-567-23	SW01	104	106	
390-567-24	SW02	97	98	
390-567-25	SW03	109	108	
390-567-26	SW04	98	102	
390-567-27	FS01	102	104	
390-567-28	FS03	98	98	
390-567-29	FS04	100	101	
390-567-30	FS05	94	96	
390-567-31	FS06	93	100	
390-567-32	FS07	91	99	
390-567-33	FS08	88	101	
390-567-34	FS09	90	100	
390-567-35	SW05	93	105	
890-567-36	SW06	89	100	
CS 880-2316/2-A	Lab Control Sample	98	102	
.CS 880-2324/2-A	Lab Control Sample	105	99	
CS 880-2326/2-A	Lab Control Sample	105	99 104	
		97		
_CSD 880-2316/3-A	Lab Control Sample Dup		100	
_CSD 880-2324/3-A	Lab Control Sample Dup	104	100	
LCSD 880-2326/3-A	Lab Control Sample Dup	111	105	
VB 880-2316/1-A	Method Blank	88	99	

Surrogate Summary

Client: WSP USA Inc. Project/Site: Longview 12-15

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

Prep	Type:	Total/NA

Job ID: 890-567-1

SDG: TE034821014

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5				
MB 880-2324/1-A	Method Blank	103	105		J				
MB 880-2326/1-A	Method Blank	106	110		6				
Surrogate Legend									

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Longview 12-15

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2227/5-A Matrix: Solid Analysis Batch: 2325

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 10:30	04/27/21 04:01	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/26/21 10:30	04/27/21 04:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/26/21 10:30	04/27/21 04:01	1

Lab Sample ID: LCS 880-2227/1-A Matrix: Solid

Analysis Batch: 2325

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08635		mg/Kg		86	70 - 130	
Toluene	0.100	0.08911		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09024		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09331		mg/Kg		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-2227/2-A Matrix: Solid Analysis Batch: 2325

Analysis Batch: 2325									Prep	Batch:	2227
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08938		mg/Kg		89	70 - 130	3	35
Toluene			0.100	0.09304		mg/Kg		93	70 - 130	4	35
Ethylbenzene			0.100	0.09645		mg/Kg		96	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1954		mg/Kg		98	70 - 130	5	35
o-Xylene			0.100	0.09715		mg/Kg		97	70 - 130	4	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Lab Sample ID: 890-567-2 MS **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA Analysis Batch: 2325 Prep Batch: 2227 Sample Sample Spike MS MS %Rec. **Result Qualifier** Added Result Qualifier Analyte Unit D %Rec Limits Benzene <0.00199 U 0.0998 0.08038 mg/Kg 81 70 - 130

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 2227

Prep Batch: 2227

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Released to Imaging: 7/20/2021 9:09:57 AM

Client: WSP USA Inc. Project/Site: Longview 12-15 Job ID: 890-567-1 SDG: TE034821014

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

Matrix: Solid	2 MS										Cli	ent Sam		
												Prep Ty		
Analysis Batch: 2325		_	_										Batch	2227
	Sample			Spike		MS				_	~-	%Rec.		
Analyte	Result		ifier	Added	Result	Qua	lifier	Unit		_ <u>D</u>	%Rec	Limits		
Toluene	<0.00199			0.0998	0.08375			mg/Kg			84	70 - 130		
Ethylbenzene	<0.00199			0.0998	0.08584			mg/Kg			86	70 - 130		
m-Xylene & p-Xylene	<0.00398			0.200	0.1746			mg/Kg			87	70 - 130		
o-Xylene	<0.00199	U		0.0998	0.08541			mg/Kg			86	70 - 130		
	MS	MS												
Surrogate	%Recovery	Qual	ifier	Limits										
4-Bromofluorobenzene (Surr)	102			70 - 130										
1,4-Difluorobenzene (Surr)	104			70 - 130										
Lab Sample ID: 890-567-2	2 MSD										Cli	ent Sam	•	
Matrix: Solid												Prep Ty		
Analysis Batch: 2325		_	_										Batch	
	Sample			Spike	-	MSE						%Rec.		RPD
Analyte	Result		ifier	Added	Result	Qua	lifier	Unit			%Rec	Limits	RPD	Limi
Benzene	<0.00199			0.100	0.07366			mg/Kg			74	70 - 130	9	35
Toluene	<0.00199			0.100	0.07551			mg/Kg			76	70 - 130	10	35
Ethylbenzene	<0.00199			0.100	0.07682			mg/Kg			77	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U		0.200	0.1558			mg/Kg			78	70 - 130	11	35
o-Xylene	<0.00199	U		0.100	0.07619			mg/Kg			76	70 - 130	11	35
	MSD	MSD												
Surrogate	%Recovery	Qual	ifier	Limits										
4-Bromofluorobenzene (Surr)	102			70 - 130										
1,4-Difluorobenzene (Surr)	105			70 - 130										
Lab Sample ID: MB 880-2	244/E A									Clie	nt Some	ole ID: M	othod	Plank
Matrix: Solid	LJ 14/J-A									Cilei	in Samp	Prep Ty		
Analysis Batch: 2315													Batch:	
Analysis Batch. 2315		мв	мв									Fieh	Datch	. 2314
Analyte	Re		Qualifier	RI		MDL	Unit		D	Pr	epared	Analyz	zed	Dil Fac
Benzene	<0.00		U	0.00200			mg/K	3	-		6/21 08:44			
Toluene		0200		0.0020			mg/Kg					04/26/21		1
Ethylbenzene		0200		0.0020			mg/K	-				04/26/21		1
m-Xylene & p-Xylene	<0.00		U	0.00400			mg/K					04/26/21		
		0200	-	0.0020			mg/K	-				04/26/21		
	50.00				-			2				· · · · · · · · · · · · · · · · · · ·		
o-Xylene					0		ma/K	3		04/26	5/21 08·44	04/26/21	12:07	1
o-Xylene Xylenes, Total Total BTEX	<0.00		U	0.0040			mg/Kg mg/Kg					04/26/21 04/26/21		1

	MB MB	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Lab Sample ID: LCS 880-2314/1-A Matrix: Solid Analysis Batch: 2315

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Batch: 2314

Analyzed

Prepared

04/26/21 08:44 04/26/21 12:07

04/26/21 08:44 04/26/21 12:07

Client Sample ID: Lab Control Sample

5/10/2021 (Rev. 2)

Dil Fac

1

Client: WSP USA Inc. Project/Site: Longview 12-15

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

Lab Sample ID: LCS 880- Matrix: Solid Analysis Batch: 2315	-2314/1-A					Clien		Lab Control S Prep Type: To Prep Batcl	otal/NA
	LCS L	CS							
Surrogate	%Recovery (Qualifier	Limits						
1,4-Difluorobenzene (Surr)	111		70 - 130						
Lab Sample ID: LCSD 88 Matrix: Solid	0-2314/2-A				Clien	t San		Control Samp Prep Type: To	otal/NA
Analysis Batch: 2315								Prep Batcl	n: 2314
	LCSD L	CSD							
Surrogate	%Recovery (Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		70 - 130						
1,4-Difluorobenzene (Surr)	107		70 - 130						
Lab Sample ID: MB 880-2 Matrix: Solid Analysis Batch: 2325	2322/5-A							le ID: Method Prep Type: To Prep Batcl	otal/NA
		/IB MB							
Analyte		ult Qualifier		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.002		0.00200		mg/Kg			04/26/21 15:59	1
Toluene	<0.002		0.00200		mg/Kg			04/26/21 15:59	1
Ethylbenzene	<0.002	00 U	0.00200		mg/Kg		04/26/21 10:48	04/26/21 15:59	1
m-Xylene & p-Xylene	<0.004	00 U	0.00400		mg/Kg		04/26/21 10:48	04/26/21 15:59	1
o-Xylene	<0.002	00 U	0.00200		mg/Kg		04/26/21 10:48	04/26/21 15:59	1
Xylenes, Total	<0.004	00 U	0.00400		mg/Kg		04/26/21 10:48	04/26/21 15:59	1
Total BTEX	<0.004	00 U	0.00400		mg/Kg		04/26/21 10:48	04/26/21 15:59	1
	л	MB MB							
Surrogate	%Recove	ery Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		99	70 - 130				04/26/21 10:48	04/26/21 15:59	1
1,4-Difluorobenzene (Surr)	1	02	70 - 130				04/26/21 10:48	04/26/21 15:59	1
Lab Sample ID: MB 880-2	2338/5-A						Client Samp	le ID: Method	l Blank

Lab Sample ID: MB 880-2338/5-A Matrix: Solid **Analysis Batch: 2315**

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 15:48	04/27/21 00:03	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				04/26/21 15:48	04/27/21 00:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/26/21 15:48	04/27/21 00:03	1

Prep Type: Total/NA Prep Batch: 2338

Prep Type: Total/NA

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

Lab Sample ID: LCS 880)-2338/1-A					Clier	nt Sar	nple ID	: Lab Control Sample
Matrix: Solid Analysis Batch: 2315									Prep Type: Total/NA Prep Batch: 2338
-			Spike	LCS	LCS				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene			0.100	0.08044		mg/Kg		80	70 - 130
Toluene			0.100	0.09159		mg/Kg		92	70 - 130
Ethylbenzene			0.100	0.08684		mg/Kg		87	70 - 130
m-Xylene & p-Xylene			0.200	0.1811		mg/Kg		91	70 - 130
o-Xylene			0.100	0.09065		mg/Kg		91	70 - 130
	LCS L	.cs							
Surrogate	%Recovery (Qualifier	Limits						

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-2338/2-A Matrix: Solid Analysis Batch: 2315

Analysis Batch: 2315							Prep	Batch:	2338
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.04572	*- *1	mg/Kg		46	70 - 130	55	35
Toluene	0.100	0.02608	*- *1	mg/Kg		26	70 - 130	111	35
Ethylbenzene	0.100	0.01119	*- *1	mg/Kg		11	70 - 130	154	35
m-Xylene & p-Xylene	0.200	0.02200	*- *1	mg/Kg		11	70 - 130	157	35
o-Xylene	0.100	0.01484	*- *1	mg/Kg		15	70 - 130	144	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-2316/1-A
Matrix: Solid
Analysis Batch: 2308

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 2316

Client Sample ID: Lab Control Sample Dup

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 10:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 10:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 10:40	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 08:55	04/26/21 10:40	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				04/26/21 08:55	04/26/21 10:40	1
o-Terphenyl	99		70 - 130				04/26/21 08:55	04/26/21 10:40	1

Client: WSP USA Inc. Project/Site: Longview 12-15 Job ID: 890-567-1 SDG: TE034821014

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

Matrix: Solid	516/2-A							Clie	ent	Sam	-	Lab Cor Prep Ty		
Analysis Batch: 2308												Prep	Batch	n: 2316
				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10				1000	995.7			mg/Kg			100	70 - 130		
Diesel Range Organics (Over C10-C28)				1000	942.9			mg/Kg			94	70 - 130		
Surrogate	LCS %Recovery			Limits										
1-Chlorooctane	98	Quu		70 - 130										
o-Terphenyl	101			70 - 130										
Lab Sample ID: LCSD 880-2 Matrix: Solid	2316/3-A						C	lient S	am	ple I	D: Lab	Control Prep Ty		
Analysis Batch: 2308							_					Prep	Batch	n: 2316
				Spike	LCSD					-	~ -	%Rec.		RPD
Analyte				Added	Result	Qua	lifier	Unit		D .	%Rec	Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10				1000	995.1			mg/Kg			100	70 - 130	0	
Diesel Range Organics (Over C10-C28)				1000	944.7			mg/Kg			94	70 - 130	0	2
	LCSD													
Surrogate	%Recovery	Qua	lifier	Limits										
	97 100			70 - 130 70 - 130										
1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid	100									Clie	nt Samp	Prep Ty	vpe: To	otal/NA
^{o-Terphenyl} Lab Sample ID: MB 880-232 Matrix: Solid	100									Clie		Prep Ty		otal/NA
^{o-Terphenyl} Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304	100 24/1-A		мв	70 - 130								Prep Ty Prep	pe: To Batch	otal/NA 1: 2324
o- <i>Terphenyl</i> Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte	100 24/1-A Re	sult	Qualifier	70 - 130 	I	MDL			D	Pre	epared	Prep Ty Prep Analy	vpe: To Batch	otal/NA 1: 2324 Dil Fac
o- <i>Terphenyl</i> Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10	100 24/1-A 	sult 50.0	Qualifier U	70 - 130 			mg/Kg			Pre 04/26	epared 5/21 11:10	Prep Ty Prep Analy 04/26/21	Batch zed 18:03	otal/NA 1: 2324 Dil Fa
o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	100 24/1-A 	sult 50.0 50.0	Qualifier U U	70 - 130 	1		mg/Kg	g		Pro 04/26 04/26	epared 5/21 11:10	Prep Ty Prep <u>Analy</u> 04/26/21 04/26/21	zed 18:03	otal/NA 1: 2324 Dil Fa
o- <i>Terphenyl</i> Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	100 24/1-A 	sult 50.0 50.0 50.0	Qualifier U U U	70 - 130 	1		mg/Kg	g		Pro 04/26 04/26 04/26	epared 5/21 11:10 5/21 11:10	Prep Ty Prep Analy 04/26/21 04/26/21	zed 18:03 18:03	otal/NA 1: 2324 Dil Fa
o- <i>Terphenyl</i> Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	100 24/1-A 	sult 50.0 50.0 50.0 50.0	Qualifier U U U U	70 - 130 	I		mg/Kg	g g		Pro 04/26 04/26 04/26	epared 5/21 11:10	Prep Ty Prep Analy 04/26/21 04/26/21	zed 18:03 18:03	otal/N/ 1: 2324 Dil Fa
o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	100 24/1-A 	sult 50.0 50.0 50.0 50.0 <i>MB</i>	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0	1		mg/Kg mg/Kg mg/Kg	g g		Pro 04/26 04/26 04/26 04/26	epared //21 11:10 5/21 11:10 5/21 11:10 5/21 11:10	Prep Ty Prep 04/26/21 04/26/21 04/26/21	zed 18:03 18:03 18:03	otal/NA 1: 2324 Dil Fac
o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	100 24/1-A 	sult 50.0 50.0 50.0 50.0 <i>MB</i> <i>very</i>	Qualifier U U U U	70 - 130 RL 50.0 50.0 50.0 50.0 Limits	1		mg/Kg mg/Kg mg/Kg	g g		Pro 04/26 04/26 04/26 04/26 Pro	epared 5/21 11:10 5/21 11:10 5/21 11:10 5/21 11:10 epared	Prep Ty Prep 04/26/21 04/26/21 04/26/21 04/26/21 Analy	zed 18:03 18:03 18:03 18:03 28:03	Dil Fac
o- <i>Terphenyl</i> Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	100 24/1-A 	sult 50.0 50.0 50.0 50.0 <i>MB</i>	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0 <u>50.0</u> 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u>	1		mg/Kg mg/Kg mg/Kg	g g		Pro 04/26 04/26 04/26 04/26 Pro 04/26	epared 5/21 11:10 5/21 11:10 5/21 11:10 5/21 11:10 6/21 11:10	Prep Ty Prep 04/26/21 04/26/21 04/26/21 04/26/21 04/26/21	zed 18:03 18:03 18:03 18:03 18:03 18:03	otal/NA 1: 2324 Dil Fa
D-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	100 24/1-A 	sult 50.0 50.0 50.0 50.0 <i>MB</i> <i>very</i>	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0 Limits			mg/Kg mg/Kg mg/Kg	g g		Pro 04/26 04/26 04/26 04/26 Pro 04/26	epared 5/21 11:10 5/21 11:10 5/21 11:10 5/21 11:10 epared	Prep Ty Prep 04/26/21 04/26/21 04/26/21 04/26/21 04/26/21	zed 18:03 18:03 18:03 18:03 18:03 18:03	Dil Fa
o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-23 Matrix: Solid	100 24/1-A 	sult 50.0 50.0 50.0 50.0 50.0 <i>MB</i> <i>very</i> 103	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0 <u>50.0</u> 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u>			mg/Kg mg/Kg mg/Kg	9 9 9	D	Pro 04/26 04/26 04/26 04/26 04/26 04/26	epared 5/21 11:10 5/21 11:10 5/21 11:10 5/21 11:10 6/21 11:10 7/21 11:10	Prep Ty Prep <u>Analy</u> 04/26/21 04/26/21 04/26/21 04/26/21 <u>Analy</u> 04/26/21 <u>Lab Cop</u> Prep Ty	zed 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 rzed 18:03 18:03 18:03	Dil Fa
o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-23 Matrix: Solid	100 24/1-A 	sult 50.0 50.0 50.0 50.0 50.0 <i>MB</i> <i>very</i> 103	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0 <u>50.0</u> 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u>	LCS	LCS	mg/Kg mg/Kg mg/Kg	9 9 9	D	Prr 04/26 04/26 04/26 04/26 04/26 04/26 Sam	epared /21 11:10 /21 11:10 /21 11:10 /21 11:10 /21 11:10 /21 11:10 /21 11:10 /21 11:10 /21 11:10 /21 11:10	Prep Ty Prep <u>Analy</u> 04/26/21 04/26/21 04/26/21 04/26/21 <u>Analy</u> 04/26/21 <u>Lab Cop</u> Prep Ty	zed 18:03 18:03 18:03 18:03 18:03 18:03 zed 18:03 18:03 18:03	Dil Fa
o-Terphenyl Lab Sample ID: MB 880-232 Matrix: Solid Analysis Batch: 2304 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-23 Matrix: Solid Analysis Batch: 2304	100 24/1-A 	sult 50.0 50.0 50.0 50.0 50.0 <i>MB</i> <i>very</i> 103	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0 50.0 70 - 130 70 - 130 70 - 130		LCS	mg/Kg mg/Kg mg/Kg	9 9 9	D	Prr 04/26 04/26 04/26 04/26 04/26 04/26 Sam	epared 3/21 11:10 3/21 11:10 3/21 11:10 3/21 11:10 epared 3/21 11:10 3/21 11:10 3/21 11:10 10 10 10 10 10 10 10 10 10	Prep Ty Prep <u>Analy</u> 04/26/21 04/26/21 04/26/21 <u>Analy</u> 04/26/21 04/26/21 Lab Cor Prep Ty Prep	zed 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 rzed 18:03 18:03 18:03	Dil Fa
o-Terphenyl Lab Sample ID: MB 880-232	100 24/1-A 	sult 50.0 50.0 50.0 50.0 50.0 <i>MB</i> <i>very</i> 103	Qualifier U U U U MB	70 - 130 RL 50.0 50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 70 - 130	LCS	LCS	mg/Kg mg/Kg mg/Kg	g g g Clia	D	Prr 04/26 04/26 04/26 04/26 04/26 04/26 Sam	epared /21 11:10 /21 11:10	Prep Ty Prep Analy 04/26/21 04/26/21 04/26/21 04/26/21 04/26/21 04/26/21 04/26/21 Lab Con Prep Ty Prep %Rec.	zed 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 18:03 rzed 18:03 18:03 18:03	Dil Fa
QC Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15

Method: 8015B NM - Die

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) 3 Lab Sample ID: LCS 880-2324/2-A Marky: Sold Client Sample ID: Lab Control Sample Prep Type: TotalNA Prep Type: TotalNA Prep Type: TotalNA Analysis Batch: 2304 3 LCS LCS Client Sample ID: LCS 880-2324/3-A Matrix: Sold Client Sample ID: Lab Control Sample Dup Prep Type: TotalNA Prep Type: TotalNA Prep Batch: 2304 7 Lab Sample ID: LCSD 880-2324/3-A Matrix: Sold Spike LCS LCS 7 Analysis Batch: 2304 Spike LCS LCS LCSD Prep Type: TotalNA Prep Batch: 2324 9 Analysis Batch: 2304 Spike LCSD LCSD Prep Type: TotalNA Prep Batch: 2324 9 Clockage Organics (Over CliOC28) LCSD LCSD Matrix: Sold 1000 1026 mg/Kg 103 70.130 2 20 11 Lab Sample ID: LOSD 880-524/MS LCSD LCSD Cliont Sample ID: Phot Prep Type: TotalNA Prep Batch: 2324 11 11 11 Matrix: Sold Analysis Batch: 2304 Matrix: Sold Analysis Batch: 2304 1000 1026 mg/Kg 103 70.130 2 10 LeSD Analysis Batch: 2304 Matrix: Sold Analysis Batch: 2304 MS MS 100 10	Project/Site: Longview 12-1	5								SDG: T	E03482	21014	2
Matrix: Solid Analysis Batch: 2304 Prop Type: Total/NA Prop Batch: 2324 4 Surrogate %Recovery (Quiffer i-Chlorocotane Quiffer 99 Tor. 130 5 -Tephenyl 99 70. 130 7 </td <td>Method: 8015B NM - D</td> <td>Diesel Rang</td> <td>ge Orgar</td> <td>nics (DRO)</td> <td>) (GC) (</td> <td>Continu</td> <td>ied)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Method: 8015B NM - D	Diesel Rang	ge Orgar	nics (DRO)) (GC) (Continu	ied)						
LCS LCS LCS LCS Limits 5 Surragate 105 70.130 6 7 70.130 7	Matrix: Solid	-2324/2-A					Clier	nt Sar	nple ID	Prep Ty	pe: Tot	al/NA	
surrogate %Recovery Qualifier Limits 1-Chicocotarie 105 70.130 <t< td=""><td>Analysis Baton. 2004</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>TTCP</td><td>Button.</td><td>LULT</td><td>5</td></t<>	Analysis Baton. 2004									TTCP	Button.	LULT	5
I-Chirococtane o-Terphenyl 105 70.130 Lab Sample ID: LCSD 880-2324/3-A Matrix: Solid Analysis Batch: 2304 Client Sample ID: Lab Control Sample Du Prep Type: Total/NA Analysis Batch: 2304 Prep Batch: 2324 9 Analyte Gasoline Range Organics (CRO, C6C+01) Matrix: Solid Acded Spike Added LCSD LCSD Result Qualifier Unit D %Rec Merce RPD Limits 10 Surrogate %Recovery Outoffer 1000 1026 mg/Kg 103 70.130 2 20 Surrogate %Recovery Outoffer LCSD LCSD LCSD LCSD LCSD 1000 1026 mg/Kg 103 70.130 2 20 11 Surrogate %Recovery Outoffer 1000 70.130 70.130 2 20 12 Lab Sample D1: 890-567-1 MS LCSD LCSD MS MS MS MS 12 Analyte Resut Qualifier Analyte Resut Qualifier Analyte Client Sample ID: PH01 Prep Batch: 2324 Matrix: Solid Analysis Batch: 2304 MS MS MS MS													
o-Terphenyl 99 70.130 7 Lab Sample ID: LCSD 880-2324/3-A Matrix: Solid Client Sample ID: Lab Control Sample Du Prop Type: Total/NA Analysis Batch: 2304 9 7 8 Analysis Batch: 2304 Spike LCSD LCSD Result Qualifier 9 %Rec. RPO With 9 %Rec. RPO With 100 101 9 %Rec. RPO With 100			Qualifier										6
Lab Sample ID: LCSD 880-2324/3-A Matrix: Solid Analysis Batch: 2304 Client Sample ID: Lab Control Sample Dp. Prep Type: Total/NA Prep Batch: 2324 Prep Batch: 2324 Analyte Gasoline Range Organics (PRO-C6-C10 Spike LCSD LCSD LCSD Matrix: Solid Analysis Batch: 2004 Prep Batch: 2324 Imits Prep Batch: 2324 Imits Prep Batch: 2324 Imits Prep Batch: 2324 Imits Imits Prep Batch: 2324 Imits													
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Matrix: Solid Analysis Batch: 2304 Prep Type: Total/NA Prep Batch: 2324 Image of the second second second	Lab Sample ID: LCSD 88	0-2324/3-A				c	lient Sa	mple	ID: Lab		Sample	Dup	- 4
Analysis Batch: 2304 Prep Batch: 2324 Prep Batch: 2324 Prep Batch: 2324 Analyte Added Result Qualifier Unit D %Rec. RPD 100 </td <td></td> <td>Q</td>													Q
Analyce Spike LCSD LCSD WRec. RPD Image RPD Image RPD Limits RPD <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td></th<>													0
Gasoline Range Organics (GRO)-CS-C10 1000 1104 mg/Kg 110 70.130 2 20 110 Surrogate JRECSD LCSD LCSD LCSD Lmits 1000 1026 mg/Kg 103 70.130 2 20 110 Surrogate JRecovery Qualifier Limits 70.130 2 20 113 1-Chirococtane 104 70.130 70.130 2 20 113 1-Chirococtane 100 70.130 70.130 70.130 70.130 113 1-Chirococtane 100 70.130 70.130 114 Prep Batch: 2324 70.130 114 Analyte Resuit Qualifier Added Resuit Qualifier 116 70.130 114 GRO)-Cs C10 Sample Sample Spike MS MS MS 114 70.130 70.130 114 Cilcert Sample Organics (Over <49.9	-			Spike	LCSD	LCSD							0
Image Organics (Over Control Disel Range Organics (Over Control Case) 1000 1026 mg/Kg 103 70.130 2 20 111 Surrogate %Recovery Qualifier Limits 70.130 70.130 2 20 113 1-Chiorocotane 0.00 70.130 70.130 70.130 121 121 Lab Sample ID: 890-567-1 MS Sample Sample Spike MS MS Prep Batch: 2324 Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier Unit D %Recc Limits 70.130 124 Surrogate %Recovery Qualifier Limits 70.130 70.130 1315 F1 mg/Kg 104 70.130 144 Analyte (GRO, C6.01 Gasoline Range Organics (Over <49.9 U	Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	3
Diesei Range Organics (Over C10-C28) LCSD LCSD Surrogate LCSD 104 LCSD 70 - 130 Client 70 - 130 103 70 - 130 2 20 113 Surrogate %Recovery 100 Qualifier 100 Limits 70 - 130 Client Sample ID: PH01 103 70 - 130 2 20 113 Lab Sample ID: 890-567-1 MS Matrix: Solid Sample Sample Result Qualifier Size Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 2324 Prep Type: Total/NA Prep Batch: 2324 144 Analyte Result Qualifier (GRO)-C6-C10 MS MS WS WRC NR 104 70 - 130 104 </td <td>Gasoline Range Organics</td> <td></td> <td></td> <td>1000</td> <td>1104</td> <td></td> <td>mg/Kg</td> <td></td> <td>110</td> <td>70 - 130</td> <td>2</td> <td>20</td> <td>10</td>	Gasoline Range Organics			1000	1104		mg/Kg		110	70 - 130	2	20	10
C10-C28) LCSD LImits 12 12 12 12 13 13 13 13 13 13 13 13 14 13 14													
LCSD LCSD LCSD Less Less Less Limits				1000	1026		mg/Kg		103	70 - 130	2	20	4.4
Surrogate %Recovery 104 Qualifier 70.130 Limits 70.130 Imite 70.130 Imite 70.1	C10-C28)												11
1-Chlorooctane 104 70.130 70.130 2-Terphenyl 100 70.130 70.130 133 Lab Sample ID: 890-567-1 MS Matrix: Solid Prep Type: Total/NA Prep Batch: 2324 Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Limits 70.130 134 Gasoline Range Organics (Over <49.9		LCSD	LCSD										10
o-Terphenyl 100 70-130 113 Lab Sample ID: 890-567-1 MS Matrix: Solid Analysis Batch: 2304 Sample Result Sample Qualifier Spike Added MS MS Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 2324 Total/NA Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. 132 /// 70-130 /// 70-130 Diseel Range Organics (GRO)-C6-C10 MS MS MS MS MS // 70-130 // 70-130 Surrogate %Recorvery 1-Chlorocotane Sample Spike 70-130 MSD MSD MSD Kec. Prep Type: Total/NA Analyte Sample ID: 890-567-1 MSD MS MSD MSD MSD MSD Prep Type: Total/NA Lab Sample ID: 890-567-1 MSD Sample Sample Spike MSD MSD MSD Prep Type: Total/NA Analyte Result Qualifier Added Result Qualifier Unit P %Rec RPD Matrix: Solid Sample Sa	Surrogate	%Recovery	Qualifier	Limits									12
Lab Sample ID: 890-567-1 MS Matrix: Solid Analysis Batch: 2304 Sample Sample Spike MS MS MS Prep Type: Total/NA Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Limits Gasoline Range Organics (GRO)-C6-C10 49.9 U 998 1071 mg/Kg 104 70-130 Diesel Range Organics (GRO)-C6-C10 MS MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70-130 70-130 Prep Batch: 2324 Prep Patch: 2324 Lab Sample ID: 890-567-1 MSD Matrix: Solid Analysis Batch: 2304 MS MS MS MSD Analyte Result Qualifier Limits Client Sample ID: PH01 Prep Patch: 2324 Analyte Result Qualifier Added Result Qualifier Unit Prep Batch: 2324 Marke: Result Qualifier Added Result Qualifier Unit Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier <t< td=""><td>1-Chlorooctane</td><td>104</td><td></td><td>70 - 130</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1-Chlorooctane	104		70 - 130									
Matrix: Solid Analysis Batch: 2304 Prep Type: Total/NA Prep Batch: 2324 Analyte Sample Sample Spike MS MS MS WRec. Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Limits Gasoline Range Organics (GRO)-C6-C10 WS MS MS <td>o-Terphenyl</td> <td>100</td> <td></td> <td>70 - 130</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>13</td>	o-Terphenyl	100		70 - 130									13
Matrix: Solid Analysis Batch: 2304 Prep Type: Total/NA Prep Batch: 2324 Analyte Sample Sample Spike MS MS %Rec. Limits													
Analysis Batch: 2304 Prep Batch: 2324 Analyte Result Qualifier Added Result Qualifier Unit p %Rec. Limits	-	1 MS							C				14
Sample Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec. Limits													
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsGasoline Range Organics<49.9	Analysis Batch: 2304		. .	.							Batch:	2324	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1315 F1 mg/Kg 132 70-130 Diesel Range Organics (Over C10-C28) <49.9	A see body	•	•	•			11	_	0/ D				
(GRO)-C6-C10 Diesel Range Organics (Over <49.9								D					
Diese/Range Organics (Over C10-C28) <49.9 U 998 1071 mg/Kg 104 70 - 130 MS MS MS MS Initis		<49.9	UFI	998	1315	FI	mg/Kg		132	70 - 130			
MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70 - 130 o-Terphenyl 98 70 - 130 Lab Sample ID: 890-567-1 MSD Client Sample ID: PH01 Matrix: Solid Prep Batch: 2304 Analyte Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec. RPD Gasoline Range Organics (GRO)-C6-C10 <49.9	· · · · ·	<49.9	U	998	1071		ma/Ka		104	70 - 130			
MS Surrogate 1-Chlorooctane o-Terphenyl%Recovery QualifierLimits TO - 130 70 - 130Lab Sample ID: 890-567-1 MSD Matrix: Solid Analysis Batch: 2304Sample Sample QualifierSpike Added AddedMSD MSD MSDMSD MSDClient Sample ID: PH01 Prep Type: Total/NA Prep Batch: 2324 %Rec.Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Sample VSpike Added VMSD MSD MSDMSD mg/KgD MSC%Rec Limits VRPD Limit 20Surrogate 1-ChlorooctaneMSD 106MSD 70 - 130MSD 70 - 130120			-										
Surrogate 1-Chlorooctane o-Terphenyl%Recovery 106Qualifier 70.130Limits 70.130Lab Sample ID: 890-567-1 MSD Matrix: Solid Analysis Batch: 2304Sample SampleSample AddedSimple MsDSimple ID: PH01 Prep Type: Total/NA Prep Batch: 2324Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Sample VITSimple 998MSD 1087With mg/KgD mg/Kg%Rec 121RPD 70.130Limits 20Surrogate 1-ChlorooctaneMSD 106MSD 70.130mg/Kg10670.130120		МС	MC										
1-Chlorooctane10670.130o-Terphenyl9870.130Lab Sample ID: 890-567-1 MSD Matrix: Solid Analysis Batch: 2304Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 2324Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Sample VSpike Added VMSD NSD NSDMSD mg/Kg%Rec. 106RPD 70.130MSD C10-C28)MSD VMSD VMSD V10670.130120Surrogate 1-Chlorooctane%Recovery 106Qualifier VLimits TO.130120	Surrogata			Limito									
o-Terphenyl 98 70 - 130 Lab Sample ID: 890-567-1 MSD Matrix: Solid Analysis Batch: 2304 Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 2324 Sample Sample Sample Spike MSD V VRec. RPD Analysis Batch: 2304 Casoline Range Organics (GRO)-C6-C10 VI F1 998 1203 MSD V VRec. RPD Limits Diesel Range Organics (Over C10-C28) <49.9			Quaimer										
Lab Sample ID: 890-567-1 MSD Matrix: Solid Analysis Batch: 2304Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 2324AnalyteSample Result Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Sample V F1Spike Added 998MSD 1203MSD mg/KgClient Sample ID: PH01 Prep Batch: 2324 MSD 1211Prep Batch: 2324 LimitsMSD (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)MSD V F1MSD 9981087mg/KgD mg/KgLimits 70-130RPD 9Limit 20MSD Surrogate 1-ChlorooctaneMSD 106MSD 70-130MSD 70-130Limits 70-130Prep Satch: 2324 V													
Matrix: Solid Analysis Batch: 2304Prep Type: Total/NA Prep Batch: 2324Sample AnalyteSample QualifierSpike QualifierMSD ResultMSD QualifierWSD MSD%Rec.RPD LimitsAnalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Result VF1Qualifier 998Qualifier 1203Unit mg/KgD mg/Kg%Rec 121RPD 120Limit 20MSD C10-C28MSD MSDMSD QualifierMSD TO - 130120Surrogate 1-Chlorooctane%Recovery 106Qualifier QualifierLimits TO - 130120	o-respinenty	30		70-750									
Matrix: Solid Analysis Batch: 2304Prep Type: Total/NA Prep Batch: 2324Sample AnalyteSample QualifierSpike QualifierMSD ResultMSD QualifierWSD MSD%Rec.RPD LimitsAnalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)Result VF1Qualifier 998Qualifier 1203Unit mg/KgD mg/Kg%Rec 121RPD 120Limit 20MSD C10-C28MSD MSDMSD QualifierMSD TO - 130120Surrogate 1-Chlorooctane%Recovery 106Qualifier QualifierLimits TO - 130120	Lab Sample ID: 890-567-	1 MSD							C	lient Sami	ole ID:	PH01	
Analysis Batch: 2304Prep Batch: 2324SampleSampleSpikeMSDMSD%Rec.RPDAnalyteResultQualifierAddedResultQualifierUnitD%Rec.LimitsGasoline Range Organics<49.9	-												
SampleSampleSpikeMSDMSD%Rec.RPDAnalyteResultQualifierAddedResultQualifierUnitD%Rec.LimitsRPDLimitGasoline Range Organics<49.9													
Gasoline Range Organics <49.9	-	Sample	Sample	Spike	MSD	MSD							
Gasoline Range Organics (GRO)-C6-C10 <49.9 U F1 998 1203 mg/Kg 121 70 - 130 9 20 Diesel Range Organics (Over C10-C28) <49.9	Analyte			Added			Unit	D	%Rec	Limits	RPD	Limit	
Diesel Range Organics (Over C10-C28) <49.9 U 998 1087 mg/Kg 106 70 - 130 1 20 MSD MSD MSD MSD MSD 106 70 - 130 1 20 Surrogate %Recovery Qualifier Limits 70 - 130 1 20	Gasoline Range Organics	<49.9	U F1	998	1203		mg/Kg			70 - 130	9	20	
C10-C28) MSD MSD Surrogate <u>%Recovery</u> Qualifier Limits 1-Chlorooctane <u>70 - 130</u>	. ,												
SurrogateMSDMSD1-Chlorooctane%RecoveryQualifierLimits10670 - 130	5 5 K	<49.9	U	998	1087		mg/Kg		106	70 - 130	1	20	
Surrogate%RecoveryQualifierLimits1-Chlorooctane10670 - 130	C10-C28)												
1-Chlorooctane 106 70 - 130		MSD	MSD										
	Surrogate	%Recovery	Qualifier	Limits									
o-Terphenyl 98 70 - 130	1-Chlorooctane	106		70 - 130									
	o-Terphenyl	98		70 - 130									

Released to Imaging: 7/20/2021 9:09:57 AM

QC Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15

Job ID: 890-567-1 SDG: TE034821014

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

Lab Sample ID: MB 880-23 Matrix: Solid	26/1-A							Cli	ent Samp	ole ID: Me Prep Typ		
Analysis Batch: 2306										Prep B	atch	: 232
•	ME	MB										
Analyte	Resul	t Qualifier	RL	I	MDL	Unit		DI	Prepared	Analyze	d	Dil Fa
Gasoline Range Organics	<50.0	$\overline{\mathbf{U}}$	50.0			mg/Kg	1		•	04/26/21 18		
GRO)-C6-C10			0010				,	0.,		0 1/20/21	0.00	
Diesel Range Organics (Over	<50.0) U	50.0			mg/Kg	1	04/	26/21 13:23	04/26/21 1	8:03	
C10-C28)						0.0	,					
Il Range Organics (Over C28-C36	6) <50.0) U	50.0			mg/Kg	1	04/	26/21 13:23	04/26/21 1	8:03	
otal TPH	<50.0) U	50.0			mg/Kg		04/	26/21 13:23	04/26/21 1	8:03	
						0.0	,					
	ME	3 MB										
Surrogate	%Recovery	/ Qualifier	Limits					1	Prepared	Analyze	d	Dil F
-Chlorooctane	106	5	70 - 130					04/	26/21 13:23	04/26/21 1	8:03	
-Terphenyl	110)	70 - 130					04/	/26/21 13:23	04/26/21 1	8:03	
ab Sample ID: LCS 880-23	326/2-A						Clie	nt Sa	mple ID:	Lab Cont	rol S	amp
Aatrix: Solid									1 - C	Prep Typ		
Analysis Batch: 2306										Prep B		
			Spike	LCS	LCS					%Rec.	aton	
Analyte			Added	Result		lifior	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	1143	Qua				114	70 - 130		
GRO)-C6-C10			1000	1143			mg/Kg		114	70 - 130		
Diesel Range Organics (Over			1000	1024			mg/Kg		102	70 - 130		
C10-C28)			1000	1024			mg/rtg		102	70-130		
510-628)												
	LCS LC	S										
Surrogate	%Recovery Qu	alifier	Limits									
1-Chlorooctane	105		70 - 130									
o-Terphenyl	104		70 - 130									
_ab Sample ID: LCSD 880-	2326/3-A					С	lient Sa	mple	D: Lab	Control S	ampl	e Du
Matrix: Solid								- C.		Prep Typ		
Analysis Batch: 2306										Prep B		
			Spike	LCSD	LCS	п				%Rec.	aton	RF
Analyte			Added				Unit	D	%Rec	Limits	RPD	Lin
,			Auueu			mer	Unit					
				Result	Quu					70 - 130		
		·	1000	1224	duu		mg/Kg		122		7	
GRO)-C6-C10			1000	1224						70 130		
GRO)-C6-C10 Diesel Range Organics (Over							mg/Kg mg/Kg		103	70 - 130	1	
GRO)-C6-C10 Diesel Range Organics (Over			1000	1224	guu					70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over	LCSD LC		1000	1224						70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD LC %Recovery Qu		1000	1224						70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate			1000	1224						70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane	%Recovery Qu		1000 1000 <i>Limits</i>	1224						70 - 130		:
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane	%RecoveryQu111111		1000 1000 <i>Limits</i> 70 - 130	1224	duu					70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	%Recovery Qu 111 105		1000 1000 <i>Limits</i> 70 - 130	1224	dua				103		1	:
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-567-21	%Recovery Qu 111 105		1000 1000 <i>Limits</i> 70 - 130	1224					103	ent Samp	1 le ID:	PH
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-567-21 Matrix: Solid	%Recovery Qu 111 105		1000 1000 <i>Limits</i> 70 - 130	1224					103	ent Sampl Prep Typ	1 le ID: e: To	PH(tal/N
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-567-21 Matrix: Solid	<u>%Recovery</u> Qu 111 105 MS	alifier	1000 1000 <i>Limits</i> 70 - 130 70 - 130	1224					103	ent Sampl Prep Typ Prep B	1 le ID: e: To	PH(tal/N
GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate Chlorooctane D-Terphenyl Lab Sample ID: 890-567-21 Matrix: Solid Analysis Batch: 2306	%Recovery Qu 111 105 MS Sample Sa	nalifier	1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike	1224 1033 MS	MS		mg/Kg		103 Cliv	ent Sampl Prep Typ Prep E %Rec.	1 le ID: e: To	PH(tal/N
GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate Chlorooctane D-Terphenyl Lab Sample ID: 890-567-21 Matrix: Solid Analysis Batch: 2306	%Recovery Qu 111 105 MS Sample Sa Result Qu	mple alifier	1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	1224 1033 MS Result	MS Qua	lifier	mg/Kg	D	103 Cliv	ent Sampl Prep Typ Prep E %Rec. Limits	1 le ID: e: To	PH(tal/N
GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate -Chlorooctane -Terphenyl Lab Sample ID: 890-567-21 Matrix: Solid Analysis Batch: 2306 Malyte Basoline Range Organics	%Recovery Qu 111 105 MS Sample Sa	mple alifier	1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike	1224 1033 MS	MS Qua	lifier	mg/Kg	D	103 Cliv	ent Sampl Prep Typ Prep E %Rec.	1 le ID: e: To	PH(tal/N
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 890-567-21 Matrix: Solid Analysis Batch: 2306 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	%Recovery Qu 111 105 MS Sample Sa Result Qu	mple alifier	1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	1224 1033 MS Result	MS Qua	lifier	mg/Kg	D	103 Cliv	ent Sampl Prep Typ Prep E %Rec. Limits	1 le ID: e: To	PH(tal/N

Lab Sample ID: 890-567-21 MS

Lab Sample ID: 890-567-21 MSD

QC Sample Results

Limits

70 - 130

70 - 130

Spike

Added

998

MSD MSD

1374 F1

Result Qualifier

Unit

mg/Kg

D

%Rec

136

Client: WSP USA Inc. Project/Site: Longview 12-15

Analysis Batch: 2306

Analysis Batch: 2306

Gasoline Range Organics

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

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

MS MS %Recovery Qualifier

Sample Sample

<49.9 U F1

Result Qualifier

109

101

Diesel Range Organics (Over C10-C28)	<49.9	U		998		1014			mg/Kg		100	70 - 130	3	20
,	MSD	MSD)											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	104			70 - 130	-									
o-Terphenyl	97			70 - 130										
Method: 300.0 - Anion	s, Ion Chr	oma	tograp	ohy										
_ Lab Sample ID: MB 880-2	2339/1-A									Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Solid												Prep T		
Analysis Batch: 2406														
		MB	МВ											
Analyte	Re	esult	Qualifier		RL	1	MDL U	Jnit	I	р р	repared	Analy	zed	Dil Fac
Chloride	<	\$.00	U		5.00		n	ng/K	g -		-	04/28/21	10:15	1
Lab Sample ID: LCS 880-	-2339/2-A								Clie	nt Sa	mple ID	: Lab Cor	ntrol Sa	mple
Matrix: Solid											•	Prep T		
Analysis Batch: 2406														
-				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualif	fier	Unit	D	%Rec	Limits		
<u></u>				050										
Chloride				250		258.7			mg/Kg		103	90 - 110		
Lab Sample ID: LCSD 88	0-2339/3-A			250		258.7		С		mple		90 - 110 Control	Sample	Dup
_	0-2339/3-A			250		258.7		С		mple				
_ Lab Sample ID: LCSD 88 Matrix: Solid	0-2339/3-A			250		258.7		С		mple		Control		
_ Lab Sample ID: LCSD 88	0-2339/3-A			250 Spike			LCSD			mple		Control		
_ Lab Sample ID: LCSD 88 Matrix: Solid	0-2339/3-A									mple D		Control Prep T		luble
Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 2406	0-2339/3-A 			Spike		LCSD			lient Sa	Ì	ID: Lab	Control Prep Ty %Rec.	ype: So	RPD
Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 2406 Analyte Chloride				Spike Added		LCSD Result			Unit	Ì	ID: Lab <u>%Rec</u> 103	Control Prep T %Rec. Limits 90 - 110	ype: So RPD	RPD Limit
Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 2406 Analyte				Spike Added		LCSD Result			Unit	Ì	ID: Lab <u>%Rec</u> 103	Control Prep Ty %Rec. Limits 90 - 110 ient Sam	RPD 1 ple ID:	RPD Limit 20 PH02
Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 2406 Analyte Chloride Lab Sample ID: 890-567-0 Matrix: Solid				Spike Added		LCSD Result			Unit	Ì	ID: Lab <u>%Rec</u> 103	Control Prep T %Rec. Limits 90 - 110	RPD 1 ple ID:	RPD Limit 20 PH02
Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 2406 Analyte Chloride Lab Sample ID: 890-567-0		Sam		Spike Added		LCSD Result 257.2			Unit	Ì	ID: Lab <u>%Rec</u> 103	Control Prep Ty %Rec. Limits 90 - 110 ient Sam	RPD 1 ple ID:	RPD Limit 20 PH02
Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 2406 Analyte Chloride Lab Sample ID: 890-567-0 Matrix: Solid	 6 MS		•	Spike Added 250		LCSD Result 257.2	Qualif	fier	Unit	Ì	ID: Lab <u>%Rec</u> 103	%Rec. Limits 90 - 110 ient Sam Prep T	RPD 1 ple ID:	RPD Limit 20 PH02

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Client Sample ID: PH09 Prep Type: Total/NA Prep Batch: 2326 5 6 7

RPD

Limit

20

Client Sample ID: PH09

%Rec.

Limits

70 - 130

Prep Type: Total/NA

Prep Batch: 2326

RPD

QC Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Matrix: Solid	340/1-A						Clie	ent Sam	ple ID: Meth Prep Type	
Analysis Batch: 2446		МВ МВ								
Analyte	Po	Sult Qualifier		RL	MDL Unit		р Р	repared	Analyzed	Dil Fac
Chloride		5.00 U		5.00	mg/K			repared	- 04/28/21 18:2	
					5	5				
Lab Sample ID: LCS 880-2 Matrix: Solid	2340/2-A					Clie	nt Sa	mple ID	: Lab Contro Prep Type	
Analysis Batch: 2446										
A seal of a			Spike	_	LCS	1114	-	0/ D	%Rec.	
Analyte Chloride			Added 250		Qualifier	Unit mg/Kg	D	%Rec 103	Limits 90 - 110	
Chionde			250	231.2		mg/rty		105	90-110	
Lab Sample ID: LCSD 880 Matrix: Solid	-2340/3-A				C	Client Sa	mple	ID: Lab	Control Sar Prep Type	
Analysis Batch: 2446										
			Spike	LCSD	LCSD				%Rec.	RPD
Analyte			Added		Qualifier	Unit	D	%Rec		PD Limi
Chloride			250	253.3		mg/Kg		101	90 - 110	2 20
Lab Sample ID: 890-567-1 Matrix: Solid Analysis Batch: 2446	6 MS							CI	lient Sample Prep Type	
Analysis Baton: 2440	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	102	F1	252	392.8	F1	mg/Kg		115	90 - 110	
Lab Sample ID: 890-567-1	C IIICE								lient Sample	
Matrix: Solid Analysis Batch: 2446	Sample	Sample	Spike	MSD	MSD				Prep Type %Rec.	
	•	Sample Qualifier	Spike Added	-	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Analysis Batch: 2446	•	Qualifier	•	-	-	Unit mg/Kg	D	% Rec	%Rec.	RPD PD Limit
Analysis Batch: 2446 Analyte	Result 102	Qualifier	Added	Result	-		D	108	%Rec. Limits R	PD Limi 5 20
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid	Result 102	Qualifier	Added	Result 374.4	-		D	108	%Rec. Limits R 90 - 110	RPD 5 20
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte	Result 102 6 MS Sample Result	Qualifier F1 Sample Qualifier	Added 252 Spike Added	Result 374.4 MS Result	Qualifier MS Qualifier	mg/Kg Unit	D	108 Cli	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits	RPD 5 20
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid	Result 102 6 MS Sample	Qualifier F1 Sample Qualifier	Added 252 Spike	Result 374.4	Qualifier MS Qualifier	mg/Kg		108 Cli	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec.	PD 5 20
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid	Result 102 6 MS Sample Result 16.2	Qualifier F1 Sample Qualifier	Added 252 Spike Added	Result 374.4 MS Result	Qualifier MS Qualifier	mg/Kg Unit		108 Cli %Rec 113	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits	RPD <u>10:</u> SW04 Soluble D: SW04
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2	Result 102 6 MS Sample Result 16.2 6 MSD	Qualifier F1 Sample Qualifier F1	Added 252 Spike Added 249	Result 374.4 MS Result 296.9	Qualifier MS Qualifier F1	mg/Kg Unit		108 Cli %Rec 113	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits 90 - 110 ient Sample Prep Type	RPD <u>PD</u> <u>Limin</u> 20 1D: SW04 : Soluble ID: SW04 : Soluble
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446	Result 102 6 MS Sample Result 16.2 6 MSD Sample	Qualifier F1 Sample Qualifier F1 Sample	Added 252 Spike Added 249 Spike	Result 374.4 MS Result 296.9 MSD	Qualifier MS Qualifier F1	mg/Kg Unit mg/Kg	<u>D</u>	108 Cli <u>%Rec</u> 113 Cli	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits 90 - 110 ient Sample Prep Type %Rec.	RPD <u>PD</u> <u>Limit</u> 20 1D: SW04 : Soluble ID: SW04 : Soluble RPD
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte	Result 102 6 MS Sample Result 16.2 6 MSD Sample Result	Qualifier F1 Sample Qualifier F1 Sample Qualifier	Added 252 Spike Added 249 Spike Added	Result 374.4 MS Result 296.9 MSD Result	Qualifier MS Qualifier F1	mg/Kg Unit mg/Kg Unit		108 Cli %Rec 113 Cli	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits 90 - 110 ient Sample Prep Type %Rec. Limits R	RPD <u>PD</u> <u>Limi</u> 20 1D: SW04 : Soluble 1D: SW04 : Soluble RPD <u>Limi</u>
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid	Result 102 6 MS Sample Result 16.2 6 MSD Sample Result 16.2	Qualifier F1 Sample Qualifier F1 Sample Qualifier F1 Sample Qualifier F1	Added 252 Spike Added 249 Spike	Result 374.4 MS Result 296.9 MSD	Qualifier MS Qualifier F1	mg/Kg Unit mg/Kg	D	108 Cli %Rec 113 Cli %Rec 105	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits 90 - 110 ient Sample Prep Type %Rec.	RPD PD Limit 5 20 ID: SW04 Soluble ID: SW04 PD ID: SW04 RPD ID: SW04 Coluble ID: SW04 ID ID: SOLUTION ID <
Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analysis Batch: 2446 Analyte Chloride Lab Sample ID: 890-567-2 Matrix: Solid Analyte Chloride Lab Sample ID: MB 880-23 Matrix: Solid	Result 102 6 MS Sample Result 16.2 6 MSD Sample Result 16.2 341/1-A	Qualifier F1 Sample Qualifier F1 Sample Qualifier	Added 252 Spike Added 249 Spike Added	Result 374.4 MS Result 296.9 MSD Result 277.4	Qualifier MS Qualifier F1	Unit mg/Kg Unit mg/Kg	D D Clic	108 Cli %Rec 113 Cli %Rec 105	%Rec. Limits R 90 - 110 ient Sample Prep Type %Rec. Limits 90 - 110 ient Sample Prep Type %Rec. Limits R 90 - 110	RPD PD Limit 5 20 ID: SW04 Soluble ID: SW04 PD ID: SW04 RPD ID: SW04 Limit ID: SW04 ID ID: SOLUBLE ID ID: SOLUBE ID <td< td=""></td<>

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Released to Imaging: 7/20/2021 9:09:57 AM

Client: WSP USA Inc.

QC Sample Results

Job ID: 890-567-1 SDG: TE034821014

Project/Site: Longview 12-15 Method: 300.0 - Anions, Ion Chromatography

	341/2-A						Clien	t Sa	mple ID	: Lab Cor		
Matrix: Solid										Prep Ty	ype: So	oluble
Analysis Batch: 2449				Spike	1.09	LCS				%Rec.		
Analyte				Added	-	Qualifier	Unit	D	%Rec	Limits		
Chloride				250	253.0		mg/Kg		101	90 - 110		
				200	200.0		iiig/itg		101	50-110		
Lab Sample ID: LCSD 880- Matrix: Solid	-2341/3-A					C	Client San	nple	ID: Lat	Control Prep Ty		
Analysis Batch: 2449											, , , , , , , , , , , , , , , , , , , ,	
· · · · · , · · · · · · · · · · · · · · · · · · ·				Spike	LCSD	LCSD				%Rec.		RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride				250	254.9		mg/Kg		102	90 - 110	1	20
_ Lab Sample ID: 890-567-36	6 MS								CI	ient Samp	ole ID:	SW06
Matrix: Solid										Prep Ty	ype: So	oluble
Analysis Batch: 2449												
	Sample		•	Spike	-	MS				%Rec.		
Analyte	Result	Qua	lifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	7150			252	9541	4	mg/Kg		950	90 - 110		
_ Lab Sample ID: 890-567-36 Matrix: Solid	6 MSD								CI	ient Samp Prep Ty		
Analysis Batch: 2449												
	Sample	Sam	nple	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7150			252	9850	4	mg/Kg		1073	90 - 110	3	20
Lab Sample ID: MB 880-25 Matrix: Solid Analysis Batch: 2608	56/1-A							Clie	ent Sam	nple ID: M Prep Ty		
Matrix: Solid Analysis Batch: 2608		МВ			D.		_			Prep Ty	ype: So	oluble
Matrix: Solid Analysis Batch: 2608 Analyte	Re	sult	Qualifier			MDL Unit	D		ent Sarr	Prep Ty	ype: So	oluble Dil Fac
Matrix: Solid Analysis Batch: 2608	Re		Qualifier		RL 5.00	MDL Unit				Prep Ty	ype: So	oluble
Matrix: Solid Analysis Batch: 2608 Analyte Chloride	<u> Re</u> <	sult	Qualifier				g —	P	repared	Prep Ty 	ype: So zed 15:17	oluble Dil Fac 1
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-24	<u> Re</u> <	sult	Qualifier				g —	P	repared	Prep Ty <u>Analyz</u> 	ype: So zed 15:17	Dil Fac 1 ample
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid	<u> Re</u> <	sult	Qualifier				g —	P	repared	Prep Ty 	ype: So zed 15:17	Dil Fac 1 ample
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-24	<u> Re</u> <	sult	Qualifier	 Spike	5.00		g —	P	repared	Prep Ty <u>Analyz</u> 	ype: So zed 15:17	Dil Fac 1 ample
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid	<u> Re</u> <	sult	Qualifier	Spike Added	5.00 LCS	mg/K	g —	P	repared	Prep Ty Analyz 05/03/21 2: Lab Cor Prep Ty	ype: So zed 15:17	Dil Fac 1 ample
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid Analysis Batch: 2608	<u> Re</u> <	sult	Qualifier		5.00 LCS	mg/K LCS Qualifier	g Clien	P t Sa	repared mple ID	Prep Ty Analyz 05/03/21 Contractions Con	ype: So zed 15:17	Dil Fac 1 ample
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-24 Matrix: Solid Analysis Batch: 2608 Analyte Chloride	Re < 556/2-A	sult	Qualifier	Added	5.00 LCS Result	mg/K LCS Qualifier	G Clien Unit mg/Kg	P t Sa	mple ID	Analyz 05/03/21 End Corr Prep Ty %Rec. Limits 90 - 110	ype: So zed 15:17 - htrol So ype: So	Dil Fac 1 ample oluble
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-24 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880-	Re < 556/2-A	sult	Qualifier	Added	5.00 LCS Result	mg/K LCS Qualifier	G Clien Unit mg/Kg	P t Sa	mple ID	Analyz 05/03/21 Lab Cor Prep Ty %Rec. Limits 90 - 110 Control	ype: So zed 15:17 - htrol So ype: So Sample	oluble <u>Dil Fac</u> 1 ample oluble e Dup
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-24 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid	Re < 556/2-A	sult	Qualifier	Added	5.00 LCS Result	mg/K LCS Qualifier	G Clien Unit mg/Kg	P t Sa	mple ID	Analyz 05/03/21 End Corr Prep Ty %Rec. Limits 90 - 110	ype: So zed 15:17 - htrol So ype: So Sample	oluble <u>Dil Fac</u> 1 ample oluble e Dup
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-2 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880-	Re < 556/2-A	sult	Qualifier	Added 250	5.00 LCS Result 263.2	LCS Qualifier	G Clien Unit mg/Kg	P t Sa	mple ID	Prep Ty Analyz 05/03/21 C Lab Corr Prep Ty %Rec. Limits 90 - 110 Control S Prep Ty	ype: So zed 15:17 - htrol So ype: So Sample	oluble Dil Fac 1 ample oluble e Dup oluble
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-23 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608	Re < 556/2-A	sult	Qualifier	Added 250 Spike	5.00 LCS Result 263.2 LCSD	LCS Qualifier LCSD	G Clien Unit mg/Kg Client San	P t Sa _ D _ nple	mple ID %Rec 105 ID: Lat	Prep Ty Analyz 05/03/21 C Lab Cor Prep Ty %Rec. Limits 90 - 110 Control S Prep Ty %Rec.	ype: So zed 15:17 htrol Sa ype: So Sample ype: So	oluble Dil Fac 1 ample oluble e Dup oluble RPD
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608 Analyte	Re < 556/2-A	sult	Qualifier	Added 250 Spike Added	5.00 LCS Result 263.2 LCSD Result	LCS Qualifier LCSD Qualifier	g Clien Unit mg/Kg Client San	P t Sa	mple ID %Rec 105 ID: Lat	Prep Ty Analyz 05/03/21 C Lab Cor Prep Ty %Rec. Limits 90 - 110 Control S Prep Ty %Rec. Limits	ype: So zed 15:17 htrol So ype: So Samply ype: So 	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-23 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608	Re < 556/2-A	sult	Qualifier	Added 250 Spike	5.00 LCS Result 263.2 LCSD	LCS Qualifier LCSD Qualifier	G Clien Unit mg/Kg Client San	P t Sa _ D _ nple	mple ID %Rec 105 ID: Lat	Prep Ty Analyz 05/03/21 C Lab Cor Prep Ty %Rec. Limits 90 - 110 Control S Prep Ty %Rec.	ype: So zed 15:17 htrol Sa ype: So Sample ype: So	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608 Analyte Chloride	Re 556/2-A 	sult	Qualifier	Added 250 Spike Added	5.00 LCS Result 263.2 LCSD Result	LCS Qualifier LCSD Qualifier	g Clien Unit mg/Kg Client San	P t Sa pple	mple ID %Rec 105 ID: Lat %Rec 103	Analyz 05/03/21 Control %Rec. Limits 90 - 110 %Rec. Limits 90 - 110 %Rec. Limits 90 - 110	ype: So zed 15:17 - htrol So ype: So Samply ype: So _	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit 20
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608 Analysis Batch: 2608 Analyte Chloride Lab Sample ID: MB 880-26	Re 556/2-A 	sult	Qualifier	Added 250 Spike Added	5.00 LCS Result 263.2 LCSD Result	LCS Qualifier LCSD Qualifier	g Clien Unit mg/Kg Client San	P t Sa pple	mple ID %Rec 105 ID: Lat %Rec 103	Analyz 05/03/21 Control %Rec. Limits 90 - 110 O Control %Rec. Limits 90 - 110 %Rec. Limits 90 - 110 %Rec. Limits 90 - 110	ype: So zed 15:17 - htrol Sa ype: So Samply ype: So <u>RPD</u> 2 ethod	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit 20 Blank
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: MB 880-26 Matrix: Solid	Re 556/2-A 	sult	Qualifier	Added 250 Spike Added	5.00 LCS Result 263.2 LCSD Result	LCS Qualifier LCSD Qualifier	g Clien Unit mg/Kg Client San	P t Sa pple	mple ID %Rec 105 ID: Lat %Rec 103	Analyz 05/03/21 Control %Rec. Limits 90 - 110 %Rec. Limits 90 - 110 %Rec. Limits 90 - 110	ype: So zed 15:17 - htrol Sa ype: So Samply ype: So <u>RPD</u> 2 ethod	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit 20 Blank
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-23 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: MB 880-26	Re 556/2-A 	<u>5.00</u>	Qualifier	Added 250 Spike Added	5.00 LCS Result 263.2 LCSD Result	LCS Qualifier LCSD Qualifier	g Clien Unit mg/Kg Client San	P t Sa pple	mple ID %Rec 105 ID: Lat %Rec 103	Analyz 05/03/21 Control %Rec. Limits 90 - 110 O Control %Rec. Limits 90 - 110 %Rec. Limits 90 - 110 %Rec. Limits 90 - 110	ype: So zed 15:17 - htrol Sa ype: So Samply ype: So <u>RPD</u> 2 ethod	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit 20 Blank
Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCS 880-22 Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 2608 Analyte Chloride Lab Sample ID: MB 880-26 Matrix: Solid	Re 5556/2-A 	<u>sult</u> 5.00	Qualifier U	Added 250 Spike Added	5.00 LCS Result 263.2 LCSD Result 258.2	LCS Qualifier LCSD Qualifier	g Clien Unit mg/Kg Client San	P t San D D Clia	mple ID %Rec 105 ID: Lat %Rec 103	Analyz 05/03/21 Control %Rec. Limits 90 - 110 O Control %Rec. Limits 90 - 110 %Rec. Limits 90 - 110 %Rec. Limits 90 - 110	ype: So zed 15:17 htrol Sa ype: So Samply ype: So RPD 2 whethod ype: So	oluble Dil Fac 1 ample oluble e Dup oluble RPD Limit 20 Blank

Client: WSP USA Inc. Project/Site: Longview 12-15

Job ID: 890-567-1 SDG: TE034821014

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-2631/2-A							Clie	nt S	an	nle ID	: Lab Cor	ntrol S	amnlo
Matrix: Solid							one		an		Prep T		
Analysis Batch: 2634													
			Spike	L	CS	LCS					%Rec.		
Analyte			Added			Qualifier	Unit		2	%Rec	Limits		
Chloride			250	25	2.4		mg/Kg			101	90 - 110		
 Lab Sample ID: LCSD 880-2631/3-A	4					C	lient Sa	ampl	e l	D: Lab	Control	Samp	le Dup
Matrix: Solid											Prep T		
Analysis Batch: 2634													
			Spike		-	LCSD		_	_	- · -	%Rec.		RPE
Analyte			Added			Qualifier	Unit			%Rec	Limits	RPD	
Chloride			250	25	0.0		mg/Kg			100	90 - 110	1	20
Lab Sample ID: MB 880-2564/1-A Matrix: Solid								CI	ie	nt Sam	ple ID: M Prep T		
Analysis Batch: 2689											TTOP 1	, pc. c	
· ···· , ··· · ····	MB	MB											
Analyte		Qualifier		RL	N	IDL Unit		D	Pr	epared	Analy		Dil Fac
Chloride	<5.00	U		5.00		mg/Kg	g				05/04/21	16:39	1
Lab Sample ID: LCS 880-2564/2-A Matrix: Solid							Clie	nt S	an	nple ID:	: Lab Cor Prep T		
Analysis Batch: 2689			Spike		<u></u>	LCS					%Rec.		
Analyte			Added		-	Qualifier	Unit	г	5	%Rec	Limits		
Chloride			250		5.1		mg/Kg			102	90 - 110		
Lab Sample ID: LCSD 880-2564/3-A Matrix: Solid Analysis Batch: 2689	4					C	lient Sa	ampl	e I	ID: Lab	Control Prep T		
Analysis Balch. 2005			Spike	LC	SD	LCSD					%Rec.		RPD
Analyte			Added		-	Qualifier	Unit		5	%Rec	Limits	RPD	
Chloride			250	25	5.4		mg/Kg			102	90 - 110	0	20
Lab Sample ID: MB 880-2723/1-A								C 1	io	nt Sam	ple ID: M	othod	Plank
Matrix: Solid									Ie	int Sain	Prep T		
Analysis Batch: 2769												ype. o	orubit
	MB	МВ											
Analyte		Qualifier		RL	R/	IDL Unit		D	Pr	epared	Analy	zed	Dil Fac
Chloride					IV								
-	<5.00	U		5.00	IV	mg/Kg					05/06/21	15:07	1
 ah Sample ID: CS 880-2723/2-A	<5.00	U					g	ent S	an	nnle ID [.]			
· · · · · · · · · · · · · · · · · · ·	<5.00	U					g	ent Sa	an	nple ID:	: Lab Cor	ntrol S	ample
Matrix: Solid	<5.00	U					g	ent Sa	an	nple ID:		ntrol S	ample
Lab Sample ID: LCS 880-2723/2-A Matrix: Solid Analysis Batch: 2769	<5.00	U	Spike	5.00			g	ent Sa	an	nple ID:	: Lab Cor	ntrol S	ample
Matrix: Solid Analysis Batch: 2769 Analyte	<5.00	U	Added	5.00 L	CS sult	mg/K	g Clie Unit			nple ID	: Lab Cor Prep T	ntrol S	ample
Matrix: Solid Analysis Batch: 2769 Analyte	<5.00	U 	•	5.00 L	cs	mg/K	g Clie				: Lab Cor Prep Ty %Rec.	ntrol S	ample
Matrix: Solid Analysis Batch: 2769 Analyte Chloride Lab Sample ID: LCSD 880-2723/3-A		U 	Added	5.00 L	CS sult	mg/Kg LCS Qualifier	Clie Unit mg/Kg	<u>[</u>)	%Rec 94	Lab Cor Prep T %Rec. Limits 90 - 110 Control	ntrol S ype: S	ample oluble
Matrix: Solid Analysis Batch: 2769 Analyte Chloride Lab Sample ID: LCSD 880-2723/3-A Matrix: Solid		U 	Added	5.00 L	CS sult	mg/Kg LCS Qualifier	Clie Unit mg/Kg	<u>[</u>)	%Rec 94	: Lab Cor Prep Ty %Rec. Limits 90 - 110	ntrol S ype: S	ample oluble
Matrix: Solid Analysis Batch: 2769 Analyte Chloride Lab Sample ID: LCSD 880-2723/3-A		U 	Added	5.00 L Res 23	CS sult 5.1	mg/Kg LCS Qualifier	Clie Unit mg/Kg	<u>[</u>)	%Rec 94	Lab Cor Prep T %Rec. Limits 90 - 110 Control	ntrol S ype: S	oluble le Dup
Matrix: Solid Analysis Batch: 2769 Analyte Chloride Lab Sample ID: LCSD 880-2723/3-A Matrix: Solid		U 	Added 250	5.00 L Res 23	CS sult 5.1 SD	mg/Kg LCS Qualifier	Clie Unit mg/Kg	<u>r</u>)	%Rec 94	 Lab Cor Prep T %Rec. Limits 90 - 110 Control Prep T 	ntrol S ype: S	ample oluble le Dup oluble RPD

Client: WSP USA Inc. Project/Site: Longview 12-15

Job ID: 890-567-1 SDG: TE034821014

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2852/1-A Matrix: Solid Analysis Batch: 2853									CI	lien	t Sam	ple ID: M Prep T		
•	MB	МВ												
Analyte	Result	Qualifier		RL	I	MDL	Unit		D	Prep	pared	Analy	zed	Dil Fac
Chloride	<5.00	U		5.00			mg/K	g				05/07/21	23:30	1
Lab Sample ID: LCS 880-2852/2-A Matrix: Solid								Clie	ent S	amı	ole ID	: Lab Cor Prep T		
Analysis Batch: 2853														
			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qual	ifier	Unit		D %	6Rec	Limits		
Chloride			250		231.5			mg/Kg			93	90 - 110		
Lab Sample ID: LCSD 880-2852/3- Matrix: Solid Analysis Batch: 2853	A						С	lient S	ampl	e IC): Lab	Control Prep T		
-			Spike		LCSD	LCS	D					%Rec.		RPD
Analyte			Added		Result	Qual	ifier	Unit	[D %	6Rec	Limits	RPD	Limit
Chloride			250		243.8			mg/Kg			98	90 - 110	5	20

Client: WSP USA Inc. Project/Site: Longview 12-15

GC VOA

Prep Batch: 2227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-2	PH01	Total/NA	Solid	5035	_
890-567-3	PH01	Total/NA	Solid	5035	5
890-567-4	PH01	Total/NA	Solid	5035	
890-567-5	PH01	Total/NA	Solid	5035	
890-567-6	PH02	Total/NA	Solid	5035	
890-567-7	PH02	Total/NA	Solid	5035	
890-567-8	PH03	Total/NA	Solid	5035	
890-567-9	PH03	Total/NA	Solid	5035	8
890-567-10	PH04	Total/NA	Solid	5035	_
890-567-11	PH04	Total/NA	Solid	5035	9
890-567-12	PH05	Total/NA	Solid	5035	
890-567-13	PH05	Total/NA	Solid	5035	
890-567-14	PH06	Total/NA	Solid	5035	
890-567-15	PH06	Total/NA	Solid	5035	
890-567-16	PH07	Total/NA	Solid	5035	
890-567-17	PH07	Total/NA	Solid	5035	
890-567-18	PH08	Total/NA	Solid	5035	
890-567-19	PH08	Total/NA	Solid	5035	1 4
890-567-20	PH09	Total/NA	Solid	5035	
890-567-21	PH09	Total/NA	Solid	5035	
MB 880-2227/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2227/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2227/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-567-2 MS	PH01	Total/NA	Solid	5035	
890-567-2 MSD	PH01	Total/NA	Solid	5035	

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-1	PH01	Total/NA	Solid	5035	
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-567-1	PH01	Total/NA	Solid	8021B	2314
890-567-22	FS02	Total/NA	Solid	8021B	2338
890-567-23	SW01	Total/NA	Solid	8021B	2338
890-567-24	SW02	Total/NA	Solid	8021B	2338
890-567-25	SW03	Total/NA	Solid	8021B	2338
890-567-26	SW04	Total/NA	Solid	8021B	2338
890-567-27	FS01	Total/NA	Solid	8021B	2338
890-567-28	FS03	Total/NA	Solid	8021B	2338
890-567-29	FS04	Total/NA	Solid	8021B	2338
890-567-30	FS05	Total/NA	Solid	8021B	2338
890-567-31	FS06	Total/NA	Solid	8021B	2338
890-567-32	FS07	Total/NA	Solid	8021B	2338
890-567-33	FS08	Total/NA	Solid	8021B	2338
890-567-34	FS09	Total/NA	Solid	8021B	2338
890-567-35	SW05	Total/NA	Solid	8021B	2338
890-567-36	SW06	Total/NA	Solid	8021B	2338

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Job ID: 890-567-1 SDG: TE034821014

Client: WSP USA Inc. Project/Site: Longview 12-15

GC VOA (Continued)

Analysis Batch: 2315 (Continued)

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

Prep Batch: 23	22
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Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
MB 880-2322/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-2	PH01	Total/NA	Solid	8021B	2227
890-567-3	PH01	Total/NA	Solid	8021B	2227
890-567-4	PH01	Total/NA	Solid	8021B	2227
890-567-5	PH01	Total/NA	Solid	8021B	2227
890-567-6	PH02	Total/NA	Solid	8021B	2227
890-567-7	PH02	Total/NA	Solid	8021B	2227
890-567-8	PH03	Total/NA	Solid	8021B	2227
890-567-9	PH03	Total/NA	Solid	8021B	2227
890-567-10	PH04	Total/NA	Solid	8021B	2227
890-567-11	PH04	Total/NA	Solid	8021B	2227
890-567-12	PH05	Total/NA	Solid	8021B	2227
890-567-13	PH05	Total/NA	Solid	8021B	2227
890-567-14	PH06	Total/NA	Solid	8021B	2227
890-567-15	PH06	Total/NA	Solid	8021B	2227
890-567-16	PH07	Total/NA	Solid	8021B	2227
890-567-17	PH07	Total/NA	Solid	8021B	2227
890-567-18	PH08	Total/NA	Solid	8021B	2227
890-567-19	PH08	Total/NA	Solid	8021B	2227
890-567-20	PH09	Total/NA	Solid	8021B	2227
890-567-21	PH09	Total/NA	Solid	8021B	2227
MB 880-2227/5-A	Method Blank	Total/NA	Solid	8021B	2227
MB 880-2322/5-A	Method Blank	Total/NA	Solid	8021B	2322
LCS 880-2227/1-A	Lab Control Sample	Total/NA	Solid	8021B	2227
LCSD 880-2227/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2227
890-567-2 MS	PH01	Total/NA	Solid	8021B	2227
890-567-2 MSD	PH01	Total/NA	Solid	8021B	2227

Prep Batch: 2338

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-567-22	FS02	Total/NA	Solid	5035	
890-567-23	SW01	Total/NA	Solid	5035	
890-567-24	SW02	Total/NA	Solid	5035	
890-567-25	SW03	Total/NA	Solid	5035	
890-567-26	SW04	Total/NA	Solid	5035	
890-567-27	FS01	Total/NA	Solid	5035	
890-567-28	FS03	Total/NA	Solid	5035	
890-567-29	FS04	Total/NA	Solid	5035	
890-567-30	FS05	Total/NA	Solid	5035	

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Job ID: 890-567-1

SDG: TE034821014

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Client: WSP USA Inc. Project/Site: Longview 12-15

GC VOA (Continued)

Prep Batch: 2338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-31	FS06	Total/NA	Solid	5035	
890-567-32	FS07	Total/NA	Solid	5035	
890-567-33	FS08	Total/NA	Solid	5035	
890-567-34	FS09	Total/NA	Solid	5035	
890-567-35	SW05	Total/NA	Solid	5035	
890-567-36	SW06	Total/NA	Solid	5035	
MB 880-2338/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2338/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2338/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 2304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-1	PH01	Total/NA	Solid	8015B NM	2324
890-567-2	PH01	Total/NA	Solid	8015B NM	2324
890-567-3	PH01	Total/NA	Solid	8015B NM	2324
890-567-4	PH01	Total/NA	Solid	8015B NM	2324
890-567-5	PH01	Total/NA	Solid	8015B NM	2324
890-567-6	PH02	Total/NA	Solid	8015B NM	2324
890-567-7	PH02	Total/NA	Solid	8015B NM	2324
890-567-8	PH03	Total/NA	Solid	8015B NM	2324
890-567-9	PH03	Total/NA	Solid	8015B NM	2324
890-567-10	PH04	Total/NA	Solid	8015B NM	2324
890-567-11	PH04	Total/NA	Solid	8015B NM	2324
890-567-12	PH05	Total/NA	Solid	8015B NM	2324
890-567-13	PH05	Total/NA	Solid	8015B NM	2324
890-567-14	PH06	Total/NA	Solid	8015B NM	2324
890-567-15	PH06	Total/NA	Solid	8015B NM	2324
890-567-16	PH07	Total/NA	Solid	8015B NM	2324
890-567-17	PH07	Total/NA	Solid	8015B NM	2324
890-567-18	PH08	Total/NA	Solid	8015B NM	2324
890-567-19	PH08	Total/NA	Solid	8015B NM	2324
890-567-20	PH09	Total/NA	Solid	8015B NM	2324
MB 880-2324/1-A	Method Blank	Total/NA	Solid	8015B NM	2324
LCS 880-2324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2324
LCSD 880-2324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2324
890-567-1 MS	PH01	Total/NA	Solid	8015B NM	2324
890-567-1 MSD	PH01	Total/NA	Solid	8015B NM	2324

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-567-21	PH09	Total/NA	Solid	8015B NM	2326
890-567-22	FS02	Total/NA	Solid	8015B NM	2326
890-567-23	SW01	Total/NA	Solid	8015B NM	2326
890-567-24	SW02	Total/NA	Solid	8015B NM	2326
890-567-25	SW03	Total/NA	Solid	8015B NM	2326
890-567-26	SW04	Total/NA	Solid	8015B NM	2326
890-567-27	FS01	Total/NA	Solid	8015B NM	2326
890-567-28	FS03	Total/NA	Solid	8015B NM	2326
890-567-29	FS04	Total/NA	Solid	8015B NM	2326

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Job ID: 890-567-1

SDG: TE034821014

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Prep Type

Total/NA

Matrix

Solid

Client: WSP USA Inc. Project/Site: Longview 12-15

Lab Sample ID

890-567-30

GC Semi VOA (Continued)

Analysis Batch: 2306 (Continued)

Client Sample ID

FS05

				•••••	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015B NM	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	
890-567-21 MS	PH09	Total/NA	Solid	8015B NM	
890-567-21 MSD	PH09	Total/NA	Solid	8015B NM	
Analysis Batch: 230	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	I
890-567-31	FS06	Total/NA	Solid	8015B NM	
890-567-32	FS07	Total/NA	Solid	8015B NM	
000 507 00	E 000	T ()())			

890-567-32	FS07	Total/NA	Solid	8015B NM	2316	
890-567-33	FS08	Total/NA	Solid	8015B NM	2316	
890-567-34	FS09	Total/NA	Solid	8015B NM	2316	
890-567-35	SW05	Total/NA	Solid	8015B NM	2316	
890-567-36	SW06	Total/NA	Solid	8015B NM	2316	
MB 880-2316/1-A	Method Blank	Total/NA	Solid	8015B NM	2316	
LCS 880-2316/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2316	
LCSD 880-2316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2316	

Prep Batch: 2316

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-567-31	FS06	Total/NA	Solid	8015NM Prep	
890-567-32	FS07	Total/NA	Solid	8015NM Prep	
890-567-33	FS08	Total/NA	Solid	8015NM Prep	
890-567-34	FS09	Total/NA	Solid	8015NM Prep	
890-567-35	SW05	Total/NA	Solid	8015NM Prep	
890-567-36	SW06	Total/NA	Solid	8015NM Prep	
MB 880-2316/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2316/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 2324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-1	PH01	Total/NA	Solid	8015NM Prep	
890-567-2	PH01	Total/NA	Solid	8015NM Prep	
890-567-3	PH01	Total/NA	Solid	8015NM Prep	
890-567-4	PH01	Total/NA	Solid	8015NM Prep	
890-567-5	PH01	Total/NA	Solid	8015NM Prep	
890-567-6	PH02	Total/NA	Solid	8015NM Prep	
890-567-7	PH02	Total/NA	Solid	8015NM Prep	
890-567-8	PH03	Total/NA	Solid	8015NM Prep	
890-567-9	PH03	Total/NA	Solid	8015NM Prep	
890-567-10	PH04	Total/NA	Solid	8015NM Prep	
890-567-11	PH04	Total/NA	Solid	8015NM Prep	
890-567-12	PH05	Total/NA	Solid	8015NM Prep	
890-567-13	PH05	Total/NA	Solid	8015NM Prep	
890-567-14	PH06	Total/NA	Solid	8015NM Prep	
890-567-15	PH06	Total/NA	Solid	8015NM Prep	
890-567-16	PH07	Total/NA	Solid	8015NM Prep	
890-567-17	PH07	Total/NA	Solid	8015NM Prep	
890-567-18	PH08	Total/NA	Solid	8015NM Prep	

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Prep Batch

2326

2326

2326

2326

2326

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2316

Prep Batch

Job ID: 890-567-1 SDG: TE034821014

Method

8015B NM

Client: WSP USA Inc. Project/Site: Longview 12-15

GC Semi VOA (Continued)

Prep Batch: 2324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-19	PH08	Total/NA	Solid	8015NM Prep	
890-567-20	PH09	Total/NA	Solid	8015NM Prep	
MB 880-2324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-567-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-567-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 2326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-21	PH09	Total/NA	Solid	8015NM Prep	
890-567-22	FS02	Total/NA	Solid	8015NM Prep	
890-567-23	SW01	Total/NA	Solid	8015NM Prep	
890-567-24	SW02	Total/NA	Solid	8015NM Prep	
890-567-25	SW03	Total/NA	Solid	8015NM Prep	
890-567-26	SW04	Total/NA	Solid	8015NM Prep	
890-567-27	FS01	Total/NA	Solid	8015NM Prep	
890-567-28	FS03	Total/NA	Solid	8015NM Prep	
890-567-29	FS04	Total/NA	Solid	8015NM Prep	
890-567-30	FS05	Total/NA	Solid	8015NM Prep	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-567-21 MS	PH09	Total/NA	Solid	8015NM Prep	
890-567-21 MSD	PH09	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-1	PH01	Soluble	Solid	DI Leach	
890-567-2	PH01	Soluble	Solid	DI Leach	
890-567-3	PH01	Soluble	Solid	DI Leach	
890-567-4	PH01	Soluble	Solid	DI Leach	
890-567-6	PH02	Soluble	Solid	DI Leach	
890-567-7	PH02	Soluble	Solid	DI Leach	
890-567-8	PH03	Soluble	Solid	DI Leach	
890-567-10	PH04	Soluble	Solid	DI Leach	
890-567-11	PH04	Soluble	Solid	DI Leach	
890-567-12	PH05	Soluble	Solid	DI Leach	
MB 880-2339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-567-6 MS	PH02	Soluble	Solid	DI Leach	
890-567-6 MSD	PH02	Soluble	Solid	DI Leach	

Leach Batch: 2340

Lab Sample ID 890-567-16	Client Sample ID PH07	Prep Type Soluble	Matrix Solid	Method Prep Batch
890-567-17	PH07	Soluble	Solid	DI Leach
890-567-18	PH08	Soluble	Solid	DI Leach

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Job ID: 890-567-1 SDG: TE034821014

Client: WSP USA Inc. Project/Site: Longview 12-15

HPLC/IC (Continued)

Leach Batch: 2340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-19	PH08	Soluble	Solid	DI Leach	
890-567-20	PH09	Soluble	Solid	DI Leach	
890-567-21	PH09	Soluble	Solid	DI Leach	
890-567-22	FS02	Soluble	Solid	DI Leach	
890-567-23	SW01	Soluble	Solid	DI Leach	
890-567-24	SW02	Soluble	Solid	DI Leach	
890-567-25	SW03	Soluble	Solid	DI Leach	
890-567-26	SW04	Soluble	Solid	DI Leach	
890-567-27	FS01	Soluble	Solid	DI Leach	_
890-567-28	FS03	Soluble	Solid	DI Leach	
890-567-29	FS04	Soluble	Solid	DI Leach	
890-567-30	FS05	Soluble	Solid	DI Leach	
890-567-31	FS06	Soluble	Solid	DI Leach	
890-567-32	FS07	Soluble	Solid	DI Leach	
890-567-34	FS09	Soluble	Solid	DI Leach	
890-567-35	SW05	Soluble	Solid	DI Leach	
MB 880-2340/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2340/2-A	Lab Control Sample	Soluble	Solid	DI Leach	4
LCSD 880-2340/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-567-16 MS	PH07	Soluble	Solid	DI Leach	
890-567-16 MSD	PH07	Soluble	Solid	DI Leach	
890-567-26 MS	SW04	Soluble	Solid	DI Leach	
890-567-26 MSD	SW04	Soluble	Solid	DI Leach	

Leach Batch: 2341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-36	SW06	Soluble	Solid	DI Leach	
MB 880-2341/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2341/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2341/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-567-36 MS	SW06	Soluble	Solid	DI Leach	
890-567-36 MSD	SW06	Soluble	Solid	DI Leach	

Analysis Batch: 2406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-1	PH01	Soluble	Solid	300.0	2339
890-567-2	PH01	Soluble	Solid	300.0	2339
890-567-3	PH01	Soluble	Solid	300.0	2339
890-567-4	PH01	Soluble	Solid	300.0	2339
890-567-6	PH02	Soluble	Solid	300.0	2339
890-567-7	PH02	Soluble	Solid	300.0	2339
890-567-8	PH03	Soluble	Solid	300.0	2339
890-567-10	PH04	Soluble	Solid	300.0	2339
890-567-11	PH04	Soluble	Solid	300.0	2339
890-567-12	PH05	Soluble	Solid	300.0	2339
MB 880-2339/1-A	Method Blank	Soluble	Solid	300.0	2339
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	300.0	2339
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2339
890-567-6 MS	PH02	Soluble	Solid	300.0	2339
890-567-6 MSD	PH02	Soluble	Solid	300.0	2339

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Job ID: 890-567-1 SDG: TE034821014

Client: WSP USA Inc. Project/Site: Longview 12-15

HPLC/IC

Analysis Batch: 2446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-16	PH07	Soluble	Solid	300.0	2340
890-567-17	PH07	Soluble	Solid	300.0	2340
890-567-18	PH08	Soluble	Solid	300.0	2340
890-567-19	PH08	Soluble	Solid	300.0	2340
890-567-20	PH09	Soluble	Solid	300.0	2340
890-567-21	PH09	Soluble	Solid	300.0	2340
890-567-22	FS02	Soluble	Solid	300.0	2340
890-567-23	SW01	Soluble	Solid	300.0	2340
890-567-24	SW02	Soluble	Solid	300.0	2340
890-567-25	SW03	Soluble	Solid	300.0	2340
890-567-26	SW04	Soluble	Solid	300.0	2340
890-567-27	FS01	Soluble	Solid	300.0	2340
890-567-28	FS03	Soluble	Solid	300.0	2340
890-567-29	FS04	Soluble	Solid	300.0	2340
890-567-30	FS05	Soluble	Solid	300.0	2340
890-567-31	FS06	Soluble	Solid	300.0	2340
890-567-32	FS07	Soluble	Solid	300.0	2340
890-567-34	FS09	Soluble	Solid	300.0	2340
890-567-35	SW05	Soluble	Solid	300.0	2340
MB 880-2340/1-A	Method Blank	Soluble	Solid	300.0	2340
LCS 880-2340/2-A	Lab Control Sample	Soluble	Solid	300.0	2340
LCSD 880-2340/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2340
890-567-16 MS	PH07	Soluble	Solid	300.0	2340
890-567-16 MSD	PH07	Soluble	Solid	300.0	2340
890-567-26 MS	SW04	Soluble	Solid	300.0	2340
890-567-26 MSD	SW04	Soluble	Solid	300.0	2340

Analysis Batch: 2449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-36	SW06	Soluble	Solid	300.0	2341
MB 880-2341/1-A	Method Blank	Soluble	Solid	300.0	2341
LCS 880-2341/2-A	Lab Control Sample	Soluble	Solid	300.0	2341
LCSD 880-2341/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2341
890-567-36 MS	SW06	Soluble	Solid	300.0	2341
890-567-36 MSD	SW06	Soluble	Solid	300.0	2341

Leach Batch: 2556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-567-5	PH01	Soluble	Solid	DI Leach	
890-567-9	PH03	Soluble	Solid	DI Leach	
890-567-14	PH06	Soluble	Solid	DI Leach	
890-567-15	PH06	Soluble	Solid	DI Leach	
MB 880-2556/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2556/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2556/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 2564

Lab Sample ID 890-567-33	Client Sample ID FS08	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-2564/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2564/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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Job ID: 890-567-1 SDG: TE034821014

Client: WSP USA Inc. Project/Site: Longview 12-15

HPLC/IC (Continued)

Leach Batch: 2564 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
LCSD 880-2564/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 260	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-567-5	PH01	Soluble	Solid	300.0	255
890-567-9	PH03	Soluble	Solid	300.0	255
890-567-14	PH06	Soluble	Solid	300.0	255
890-567-15	PH06	Soluble	Solid	300.0	255
MB 880-2556/1-A	Method Blank	Soluble	Solid	300.0	255
LCS 880-2556/2-A	Lab Control Sample	Soluble	Solid	300.0	255
_CSD 880-2556/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	255
each Batch: 2631					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bato
MB 880-2631/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2631/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
-CSD 880-2631/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 263	4				
₋ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bate
/IB 880-2631/1-A	Method Blank	Soluble	Solid	300.0	263
_CS 880-2631/2-A	Lab Control Sample	Soluble	Solid	300.0	263
_CSD 880-2631/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	263
nalysis Batch: 268	9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
390-567-33	FS08	Soluble	Solid	300.0	256
MB 880-2564/1-A	Method Blank	Soluble	Solid	300.0	256
_CS 880-2564/2-A	Lab Control Sample	Soluble	Solid	300.0	256
-CSD 880-2564/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	256
each Batch: 2723					
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
390-567-13	PH05	Soluble	Solid	DI Leach	
VB 880-2723/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-2723/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-2723/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
nalysis Batch: 276	9				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
390-567-13	PH05	Soluble	Solid	300.0	272
MB 880-2723/1-A	Method Blank	Soluble	Solid	300.0	272
LCS 880-2723/2-A	Lab Control Sample	Soluble	Solid	300.0	272
_CSD 880-2723/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	272
ach Batchi 2952					
eden Dalen. 2002					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
each Batch: 2852 Lab Sample ID MB 880-2852/1-A	Client Sample ID Method Blank	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Bat

Soluble

Soluble

Solid

Solid

DI Leach

DI Leach

Job ID: 890-567-1

SDG: TE034821014

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Lab Control Sample

Lab Control Sample Dup

LCS 880-2852/2-A

LCSD 880-2852/3-A

Client: WSP USA Inc. Project/Site: Longview 12-15 SDG: TE034821014

HPLC/IC

Analysis Batch: 2853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2852/1-A	Method Blank	Soluble	Solid	300.0	2852
LCS 880-2852/2-A	Lab Control Sample	Soluble	Solid	300.0	2852
LCSD 880-2852/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2852

Job ID: 890-567-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-567-1 Matrix: Solid

Date Collected: 04/21/21 08:26 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Client Sample ID: PH01

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 21:03	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 19:06	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		10	2406	04/28/21 13:59	СН	XM

Client Sample ID: PH01 Date Collected: 04/21/21 08:28 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 04:30	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 20:10	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		5	2406	04/28/21 13:53	СН	XM

Client Sample ID: PH01 Date Collected: 04/21/21 08:40 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 04:50	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 20:31	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 14:20	СН	XM

Client Sample ID: PH01 Date Collected: 04/21/21 08:55 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 05:11	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 20:52	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		5	2406	04/28/21 14:26	СН	XM

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Lab Sample ID: 890-567-4

Lab Sample ID: 890-567-3

Lab Sample ID: 890-567-5 Matrix: Solid

Date Collected: 04/21/21 09:06 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Client Sample ID: PH01

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 05:31	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 21:14	AJ	XM
Soluble	Leach	DI Leach			2556	04/30/21 14:42	СН	XM
Soluble	Analysis	300.0		1	2608	05/03/21 17:42	СН	XM
lient Sam	ple ID: PH)2					La	b Sample ID: 890-567

Client Sample ID: PH02 Date Collected: 04/21/21 09:29 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 05:52	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 21:35	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		5	2406	04/28/21 14:36	CH	XM

Client Sample ID: PH02 Date Collected: 04/21/21 09:32 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 06:12	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 21:56	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 14:53	СН	XM

Client Sample ID: PH03 Date Collected: 04/21/21 09:50 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 06:32	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 22:17	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 14:58	СН	XM

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Matrix: Solid

Lab Sample ID: 890-567-8 Matrix: Solid

Lab Sample ID: 890-567-7 Matrix: Solid

Client Sample ID: PH03 Date Collected: 04/21/21 09:53 Date Received: 04/23/21 10:07

		Batch		Dilution	Batch	Prepared		
rep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
otal/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
otal/NA	Analysis	8021B		1	2325	04/27/21 06:53	KL	XM
otal/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
otal/NA	Analysis	8015B NM		1	2304	04/26/21 22:38	AJ	XM
oluble	Leach	DI Leach			2556	04/30/21 14:42	СН	XM
oluble	Analysis	300.0		1	2608	05/03/21 17:47	СН	XM

Client Sample ID: PH04 Date Collected: 04/21/21 09:58 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 07:13	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 23:00	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 15:19	СН	XM

Client Sample ID: PH04 Date Collected: 04/21/21 10:00 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 07:34	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/26/21 23:42	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 15:25	СН	XM

Client Sample ID: PH05 Date Collected: 04/21/21 10:07 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 10:05	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 00:03	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 15:30	СН	XM

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-9

Matrix: Solid

Matrix: Solid

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Lab Sample ID: 890-567-11 Matrix: Solid

Lab Sample ID: 890-567-12

Matrix: Solid

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-567-13 Matrix: Solid

Lab Sample ID: 890-567-15

Lab Sample ID: 890-567-16

Date Collected: 04/21/21 10:08 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Client Sample ID: PH05

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 10:25	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 00:24	AJ	XM
Soluble	Leach	DI Leach			2723	05/05/21 11:25	СН	XM
Soluble	Analysis	300.0		1	2769	05/06/21 17:00	СН	XM

Client Sample ID: PH06 Date Collected: 04/21/21 10:12 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 10:46	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 00:45	AJ	XM
Soluble	Leach	DI Leach			2556	04/30/21 14:42	СН	XM
Soluble	Analysis	300.0		1	2608	05/03/21 17:53	СН	XM

Client Sample ID: PH06 Date Collected: 04/21/21 10:20 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 11:06	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 01:06	AJ	XM
Soluble	Leach	DI Leach			2556	04/30/21 14:42	СН	XM
Soluble	Analysis	300.0		1	2608	05/03/21 17:58	СН	XM

Client Sample ID: PH07 Date Collected: 04/21/21 10:25 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 11:26	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 01:26	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 18:43	SC	XM

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Matrix: Solid

Lab Sample ID: 890-567-17 Matrix: Solid

Date Collected: 04/21/21 10:28 Date Received: 04/23/21 10:07

Client Sample ID: PH07

Project/Site: Longview 12-15

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 11:47	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:10	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 01:47	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 22:24	SC	XM

Client Sample ID: PH08 Date Collected: 04/21/21 10:32 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 12:07	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:11	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 02:08	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:04	SC	XM

Client Sample ID: PH08 Date Collected: 04/21/21 10:34 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 12:28	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:11	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 02:29	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:09	SC	XM

Client Sample ID: PH09 Date Collected: 04/21/21 10:45 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 12:48	KL	XM
Total/NA	Prep	8015NM Prep			2324	04/26/21 11:11	DM	XM
Total/NA	Analysis	8015B NM		1	2304	04/27/21 02:50	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:14	SC	XM

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Lab Sample ID: 890-567-19 Matrix: Solid

Lab Sample ID: 890-567-20

Matrix: Solid

Lab Sample ID: 890-567-21

Date Collected: 04/21/21 10:47 Date Received: 04/23/21 10:07

Client Sample ID: PH09

Project/Site: Longview 12-15

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2227	04/26/21 10:30	KL	XM
Total/NA	Analysis	8021B		1	2325	04/27/21 13:09	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 19:06	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:30	SC	XM

Client Sample ID: FS02 Date Collected: 04/21/21 14:56 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 01:06	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 20:10	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 19:35	SC	XM

Client Sample ID: SW01 Date Collected: 04/21/21 16:14 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 01:27	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 20:31	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:40	SC	XM

Client Sample ID: SW02 Date Collected: 04/21/21 15:47 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 01:47	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 20:52	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:45	SC	XM

Lab Sample ID: 890-567-23 Matrix: Solid

Lab Sample ID: 890-567-24

Matrix: Solid

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Matrix: Solid Lab Sample ID: 890-567-22 Matrix: Solid

Client: WSP USA Inc.

Project/Site: Longview 12-15

Job ID: 890-567-1 SDG: TE034821014

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-567-25

Lab Sample ID: 890-567-27

Lab Sample ID: 890-567-28

Client Sample ID: SW03 Date Collected: 04/21/21 15:56 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 02:08	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 21:14	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:50	SC	XM

Client Sample ID: SW04 Date Collected: 04/21/21 16:03 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 02:28	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 21:35	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		1	2446	04/28/21 19:55	SC	XM

Client Sample ID: FS01 Date Collected: 04/22/21 08:17 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 02:49	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 21:56	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 20:11	SC	XM

Client Sample ID: FS03 Date Collected: 04/22/21 14:32 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 03:09	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 22:17	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 20:16	SC	XM

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Lab Sample ID: 890-567-29 Matrix: Solid

Lab Sample ID: 890-567-31

Date Collected: 04/22/21 14:55 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Client Sample ID: FS04

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 03:30	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 22:38	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 20:32	SC	XM

Client Sample ID: FS05 Date Collected: 04/22/21 14:37 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 04:51	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 23:00	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 20:37	SC	XM

Client Sample ID: FS06 Date Collected: 04/22/21 16:27 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 05:12	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		1	2308	04/26/21 16:48	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		10	2446	04/28/21 20:42	SC	XM

Client Sample ID: FS07 Date Collected: 04/22/21 16:38 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 05:32	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		1	2308	04/26/21 17:10	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		10	2446	04/28/21 20:47	SC	XM

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9

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-567-32 Matrix: Solid

9

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID: 890-567-33 Matrix: Solid

Date Collected: 04/22/21 16:15 Date Received: 04/23/21 10:07

Project/Site: Longview 12-15

Client Sample ID: FS08

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 05:53	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		1	2308	04/26/21 17:32	AJ	XM
Soluble	Leach	DI Leach			2564	04/30/21 14:59	СН	XM
Soluble	Analysis	300.0		20	2689	05/04/21 19:10	WP	XM

Client Sample ID: FS09 Date Collected: 04/22/21 16:35 Date Received: 04/23/21 10:07

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 06:13	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		1	2308	04/26/21 17:53	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 20:58	SC	XM

Client Sample ID: SW05 Date Collected: 04/22/21 16:22 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 06:34	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		1	2308	04/26/21 18:15	AJ	XM
Soluble	Leach	DI Leach			2340	04/26/21 15:53	SC	XM
Soluble	Analysis	300.0		5	2446	04/28/21 21:03	SC	XM

Client Sample ID: SW06 Date Collected: 04/22/21 16:24 Date Received: 04/23/21 10:07

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2338	04/26/21 15:48	KL	XM
Total/NA	Analysis	8021B		1	2315	04/27/21 06:55	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		1	2308	04/26/21 18:37	AJ	XM
Soluble	Leach	DI Leach			2341	04/26/21 15:56	SC	XM
Soluble	Analysis	300.0		10	2449	04/28/21 23:24	WP	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-567-36 Matrix: Solid

Lab Sample ID: 890-567-35

Released to Imaging: 7/20/2021 9:09:57 AM

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Longview 12-15 Job ID: 890-567-1 SDG: TE034821014

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-20-21	06-30-21
The following analyte	and included in this read	ort but the leberatory is r	at partified by the governing outbority	This list may include analytes for which
the agency does not o	•		tot certified by the governing autionty.	This list may include analytes for whic
• •	•	Matrix	Analyte	This list may include analytes for whic
the agency does not o	offer certification.			

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Method Summary

Client: WSP USA Inc. Project/Site: Longview 12-15

Job ID: 890-567-1 SDG: TE034821014

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XM
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
035	Closed System Purge and Trap	SW846	XM
015NM Prep	Microextraction	SW846	XM
OI Leach	Deionized Water Leaching Procedure	ASTM	XM

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:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Longview 12-15

Job ID: 890-567-1 SDG: TE034821014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-567-1	PH01	Solid	04/21/21 08:26	04/23/21 10:07	- 1
890-567-2	PH01	Solid	04/21/21 08:28	04/23/21 10:07	- 2
890-567-3	PH01	Solid	04/21/21 08:40	04/23/21 10:07	- 4
890-567-4	PH01	Solid	04/21/21 08:55	04/23/21 10:07	- 5
890-567-5	PH01	Solid	04/21/21 09:06	04/23/21 10:07	- 6
890-567-6	PH02	Solid	04/21/21 09:29	04/23/21 10:07	- 1
890-567-7	PH02	Solid	04/21/21 09:32	04/23/21 10:07	- 2
890-567-8	PH03	Solid	04/21/21 09:50	04/23/21 10:07	- 0.5
890-567-9	PH03	Solid	04/21/21 09:53	04/23/21 10:07	- 1
390-567-10	PH04	Solid	04/21/21 09:58	04/23/21 10:07	- 0.5
890-567-11	PH04	Solid	04/21/21 10:00	04/23/21 10:07	- 1
890-567-12	PH05	Solid	04/21/21 10:07	04/23/21 10:07	- 0.5
890-567-13	PH05	Solid	04/21/21 10:08	04/23/21 10:07	- 1
890-567-14	PH06	Solid	04/21/21 10:12	04/23/21 10:07	- 0.5
890-567-15	PH06	Solid	04/21/21 10:20	04/23/21 10:07	- 1
390-567-16	PH07	Solid	04/21/21 10:25	04/23/21 10:07	- 0.5
390-567-17	PH07	Solid	04/21/21 10:28	04/23/21 10:07	- 1
890-567-18	PH08	Solid	04/21/21 10:32	04/23/21 10:07	- 0.5
390-567-19	PH08	Solid	04/21/21 10:34	04/23/21 10:07	- 1
390-567-20	PH09	Solid	04/21/21 10:45	04/23/21 10:07	- 0.5
890-567-21	PH09	Solid	04/21/21 10:47	04/23/21 10:07	- 1
890-567-22	FS02	Solid	04/21/21 14:56	04/23/21 10:07	1 - 2
890-567-23	SW01	Solid	04/21/21 16:14	04/23/21 10:07	0 - 4
390-567-24	SW02	Solid	04/21/21 15:47	04/23/21 10:07	0 - 4
890-567-25	SW03	Solid	04/21/21 15:56	04/23/21 10:07	0 - 4
890-567-26	SW04	Solid	04/21/21 16:03	04/23/21 10:07	0 - 4
890-567-27	FS01	Solid	04/22/21 08:17	04/23/21 10:07	1 - 2
890-567-28	FS03	Solid	04/22/21 14:32	04/23/21 10:07	- 4
890-567-29	FS04	Solid	04/22/21 14:55	04/23/21 10:07	- 4
890-567-30	FS05	Solid	04/22/21 14:37	04/23/21 10:07	- 4
890-567-31	FS06	Solid	04/22/21 16:27	04/23/21 10:07	- 4
390-567-32	FS07	Solid	04/22/21 16:38	04/23/21 10:07	- 4
890-567-33	FS08	Solid	04/22/21 16:15	04/23/21 10:07	- 4
890-567-34	FS09	Solid	04/22/21 16:35	04/23/21 10:07	- 4
890-567-35	SW05	Solid		04/23/21 10:07	
890-567-36	SW06	Solid		04/23/21 10:07	

No: D.com Page 1 of 4	PST/US	Preservative Looes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me H2D: HC HNO 3; HN H3D 4; H2 NaOH: Na H3D 4; H2 NaOH: Na NaHSO 4; NABIS NaOH: Na NaHSO 4; NABIS NaOH: Na Nay5 20 3; NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments Sample Comments Na 5r TI 5n LI V Zn	7470 / 74
Work Order No: _	W	Chain of Custody	Hd:
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	Bill to: (If different) Lynda Laumbach company Name: WDX Entrou Address: 5315 Butha Vista Dr dity, State ZIP: Carebact, NM 98220 Joe. hornance Zouxp.com	(1508 = 0 A9 =) H97 (2108 A9 = 5021) (2005 A7 =) 5 biological (ERA 300.0)	Total July, Fourty July 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 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affilitates and subcontractors. It assigns standard terms and conditions of service. Lunding Xenco, will be lable 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. Aminimum charge of 58 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. Aminimum charge of 58 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. Aminimum charge of 58 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins (Signature)
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ins Environment Testing Xenco		E O'S 49 21 014 E O'S 49 21 014 Temp Blank: Yes No Yes No N/A Correction Yes No N/A Temperat Corrected S 4/21/21	Circle Method(s) and Metal(s) to be analyzed Circle Method(s) and Metal(s) to be analyzed votice: Signature of this document and relinquishment of samples constitutes a service. Eurofins Yenco will be lable only for the cost of samples and shall not of Eurofins Yenco. A minimum charge of \$85.00 will be applied to each project a Relind uished by: (Signature) Received the Relind uished by: (Signature) Complexity of the cost of samples and shall not a factor of the cost of samples and shall not a factor of the cost of samples and shall not factor of Eurofins Yenco. A minimum charge of \$85.00 will be applied to each project a factor of Eurofins and shall not a factor of the cost of samples and shall not factor of the cost of the cost of samples and shall not factor of the cost of the
🝾 eurofins	e:	Project Name: Loc Project Location: TE (Project Location: Ed Sampler's Name: Ed Poil Sampler's Name: Poil Sampler's Name: Samples Received Intact: Cooler Custody Seals: Sample Custody Seals: Sample Custody Seals: Total Containers: PHOI PHOI PHOI PHO2 PHO2 PHO2 PHO2 PHO2 PHO2 PHO3 PHO3	Circle Method(s) and Metal(Circle Method(s) and Metal(Notice: Signature of this document and reling of service. Eurofins Xenco will be liable only fo of S85. Reling uished by: (Signature) 3 3

Work Order No:	Work Order Comm		Reporting: Level II Level II PST/UST TRRP Level IV Deliverables: EDD ADaPT Other:	Preservative Codes	None: NO DI Water: H ₂ O	Cool: Cool MeOH: Me HCL: HC HNO 3; HN	H ₂ S0 4: H ₂ NaOH: Na	H ₃ PO ₄ :HP	NaHSO 4: NABIS	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments									Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471	s Ottated.	sceived by: (S	Use UPAN 4.23-21 1004	-	Revised Date: 08.25/2020 Rev. 2020.2
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	(if different) LUNCIA LAUMDACH	5315 Buind Vista Dr	hernandizausp.com	ANALYSIS REQUEST	ish Pres.	(12	01E 50 50	S ==(Vd.	3) 43	X	h Grab/ # of Ch Lo Ch Lo Ch Lo					Si N				ixas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K 10 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	lient company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and condition or any losses or expenses incurred by the client if such boses are due to circumstances beyond the contro sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neg	Date/Time Relinquished by: (Signature)	4/23/21 10/00 2 20 42	2 9	
Controlins Environment Testing Xenco	Ucceph Hernanclez	<u>Company Name: WC3/UC34</u> Company Address: 3300 North A Strevt Address.	e ZIP: Midlard, TX 79705 (261) 702-2329 Email:	Name: / C.O.D. (S.M. 17-15) Turn A	Der: TEO34821014 Maout	Eddy (county)	the lab, if received by	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes	act: Yes No	Cooler Lustody Seals: Yes No N/A Contection Factor: Cooler Lustody Seals: Yes No N/A Temperature Reading:		dentification Matrix	PHOH S 4/21/21 1000 11	0HOS 1008	PH/06 11 1012 0.5	PH06 1020 1	1025 0	3201	1032 0	PH09 / / PH09	200.8 / 6020: 8RCRA 13PP d Metal(s) to be analyzed TCLP / 5F	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 for each sample and y indicating the any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of ferror. 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 ferror. Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotated.	Relinduished by: (Signature) Received by: (Signature)	· fat () b) land	3	

5/10/2021 (Rev. 2)

Page 102 of 150

Work Order No:	Work Order Comments		I Level III PST/UST TRRP Level IV	DaPT Other:	Preservative Codes	None: NO DI Water: H ₂ O	10	HLL: HL HNO 3: HN H_2504: H_2 NaOH: Na	H 3PO 4: HP	NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn		Sample Comments											Se Ag SiO ₂ Na Sr TI Sn U V Zn Hn: 1631 / 245 1 / 2470 / 7471	0/+//1.0+2/		ime	20 (MA 423-21 1007			
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Hous Midlard EL Pas Hobb	Bill to: (if different)	Company Name:	Address:		Around	e 🗌 Rush	ä	TAT starts the day received by the lab, if received by 4:30pm	: Tes No	-	1	2	ö	d Depth Grab/ Comp	,1 2	0 1-00	'h-0	7 0-41		3 0.41	1-21	۲. ۲.	-	7 4'	A 13PPM Texas 11	/ SPLP 0010 : ORCRA	esponsibility for any losses of \$5 for each sample subm	turet				
Environment Testing Xenco	Hernandez		DCHD A CHTRET	0,1X MUC)		KRout		C/Nr-1D TAT starts the lab, if	Blank: Yes No Wet Ice:	No Thermometer-ID:	1	N/A	Corrected Temperature:	Matrix Date Time Sampled	5 4/21/21 10H	0511	1014	thSI	15510	V 1603	t180 12/22/h	1432	1456	V V 1437	8RCR.	D DE analyzed I ULP nent of samples constitutes a valid purchase	cost of samples and shall not assume any n Il be applied to each project and a charge o	Received by: (Signature)	LI MA	a A a		
🐝 eurofins 📙		Company Name:	000	City, State 21P: 1111/13/00	Name.	er: 1	Edd	Sampler's Name: F3-11/113	SAMPLE RECEIPT Temp Blank:	Samples Received Intact: Yes	Yes	Sample Custody Seals: Yes No	Total Containers:	Sample Identification	PHOA	F302	Swol	5W02	5w03	SWOY	FSOL	FS03	FSOH	F505	Total 200.7 / 6010 200.8 / 6020	LITCLE METHOD(S) and METAI(S) TO DE ANAIYZED Notice: Signature of this document and relinquishment of samples const	of service. Eurofins Xenco will be liable only for the of Eurofins Xenco. A minimum charge of \$85.00 wl	Relinquished by: (Signature)	1 Jack //	3 [9]	5	

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Work Order No: www.xenco.com Page <u>H</u> of <u>H</u>	Work Order Comments	Absolute of Project: FNPU Brownneids HKL Superrund State of Project: Reporting: Level II Level III Deliverables: Level II Deliverables: Deliverables: EDD ADaPT Other: Deliverables: Deliverables:	Preservative Codes None: NO DI Water: H ₂ O None: NO DI Water: H ₂ O Cool: Cool MeOH: Me H ₂ O ₄ : HP NaOH: Na H ₃ PO ₄ : HP NaOH: Na H ₃ DO ₄ : HP NaOH: Na NaSS 2, O ₃ : NASS NaOH: Na NaOH: Na H ₃ PO, 4: HP NaOH: Na NaOH: Na NaOH: Na H ₃ PO, 4: HP NaOH: Na NaOH: Na NaOH: Ascorbic Acid: SAPC Sample Comments Sample Comments NaON I K Se Ag SIO ₂ Na Sr TI Sn U V Zn Mo Ni K Se Ag SIO ₂ Na Sr TI Sn U V Zn TI U	ions regolated. Received by: (Signature) Date/Time CLOE CULH H:23 & 1004 Revised Date CB/252020 Rev. 2020.2
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	· Lynda Laumbach	Company Name: MIVX FORCES VISTA DC Address: 53 IS BLIONA VISTA DC City, State ZIP: Carlsbarl, NM 88220	Turn Around Present of the lash Present of the lash	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 service. 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. The for the control of Eurofins Xenco Date/Time Relinquished by: (Signature) Refinduis/Active Date/Time Relinquished by: (Signature) Refinduished Refinduished Refinduished Refinduished By: (Signature) Refinduis
Control Contro	Project Manager. UCSOD HDr. And PZ	Company Name: M.D.P. (D.C.A. Address: 3.300 North A Street City, State ZIP: M.d.(and, TX 19705 East.	Project Name: COMULUL [2-15] Turr Project Number: TE O3 48 2101 4 Moutine Project Number: ECALU COUNT LI Due Date: Project Number: ECALU COUNT LI Due Date: Sampler's Name: ECALU COUNT LI Due Date: Sampler's Name: FATTARA SMICH Relab. If rec Sampler's Name: FATTARA SMICH Relab. If rec Sampler's Name: FATTARA SMICH Relab. If rec Sampler's Name: FATTARA Temp Blank: Sampler's Name: FATTARA Ves No NA Correction Factor: ECALU Sample Custody Seals: Yes No Nri A Total Containers: Corrected Temperature Reading: Ito 36 Total Containers: Corrected Temperature Ito 36 F5:03 Sampled Yes No Ito 27 F5:03 Sampled Ito 36 Ito 36 F5:03 Sampled Ito 22 Ito 22 F5:03 Subolo Ito 22 Ito 22 Subolo 200.8 Ito 22	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order of service. Eurofins Xenco will be lable only for the cost of samples and shall not assume any respons of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for Refinition of the transfer of \$85.00 will be applied to each project and a charge of \$5 for Refinition of the transfer of \$85.00 will be applied to each project and a charge of \$5 for a function of the transfer of \$85.00 will be applied to each project and a charge of \$5 for a function of the transfer of \$100 minimum charge of \$100 minimum charge a function of the transfer of \$100 minimum charge of \$100 minimum charge a function of the transfer of \$100 minimum charge of \$100 minimum charge a function of the transfer of \$100 minimum charge of \$100 minimum charge a function of the transfer of \$100 minimum charge of \$100 min

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State Zip[.] TX, 79701 PH03 (890-567-8) PH02 (890-567-7) PH02 (890-567-6) PH01 (890-567-5) PH01 (890-567-2) PH01 (890-567-1) Empty Kit Relinquished by Deliverable Requested 1 II III IV Other (specify) LC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. PH03 (890-567-9) PH01 (890-567-4) PH01 (890-567-3) Sample Identification - Client ID (Lab ID) telinquished by: lote 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 naintain 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 Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 ossible Hazard Identification Email 1211 W Florida Ave elinquished by Inconfirmed ongviewe 12-15. 32-704-5440(Tel) Midland **Client Information** 1089 N Canal St. ∆ Yes ∆ No linquished by / oject Name: Jrofins Xenco hipping/Receiving Contact: galon Custody Seal No (Sub Contract Lab) Urdune 2 Date/Time Project #: 88000203 Date/Time Date/Time: Primary Deliverable Rank 2 Due Date Requested 4/29/2021 Phone-Sampler NO # 00#: SOW# AT Requested (days) Sample Date 4/21/21 4/21/21 4/21/21 4/21/21 4/21/21 4/21/21 4/21/21 4/21/21 4/21/21 123 Chain of Custody Record Date Mountain 09 53 Mountain 09 06 Mountain 08 40 Mountain 08 55 Mountain 08 28 Mountain Mountain 09 50 Mountain 09 32 Mountain 09 29 Sample Time 08 26 る (C=comp, G=grab) Sample Type Preservation Code: BT=Tissue, A=A Company Company Company O=waste/oil, (W=water S=solid, Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer, Jessica Lab PM jessica kramer@eurofinset.com Accreditations Required (See note) E-Mail Field Filtered Sample (Yes or No) Time **NELAP** - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements Perform MS/MSD (Yes or No) Return To Client Cooler Temperature(s) °C and Other Remarks Received by Received × \times \times \times × \times \times \times × 300_ORGFM_28D/DI_LEACH Chloride × × × 8015MOD_NM/8015NM_S_Prep Full TPH × × × × × × ē × × × × × × × 8021B/5035FP Calc BTEX × \times Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Tim C \$ ٢ Archive For 6 si ka sille; æ, **. Total Number of containers** <u>in</u> in the second وتغتني ú, A HCL B Zn Acetate D Nitric Acid E - NaHSO4 F MeOH G Amchlor H Ascorbic Acid 🔅 eurofins COC No: 890-182 1 ㅈ잌 Page: Page 1 of 4 Preservation Codes 390--567--1 Ice DI Water EDTA EDA Special Instructions/Note **ARA** If the laboratory does not currently should be brought to Eurofins Xenco N≶ < c ⊣∽πр σ ozz Company Company Company Environment Testing America V None O AsNaO2 O AsNaO2 O Na2O4S O Na2SO3 Q Na2S2O3 Q Na2S2O3 S H2SO4 H2SO4 T TSP Dodecahydrate / pH 4-5 other (specify) Acetone MCAA Months Hexane

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Chain of Custody Record

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Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199	0	Chain of Custody Record	of Cust	ody R	9CO	đ													¢		Environment Testing America
ormation (Sub Contract Lab)	Sampler			Lab PM Kramer		Jessica						0	Carrier Tracking No(s)	racki	ng No	(s)			<u>00 00</u>	COC No: 890-182 2	
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Custody Seal No

Coder Temperature(s) °C and Other Remarks

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Chain of Custody Record

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		0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sample Type	Matrix (^{W=water} S=solld,	Filtered S orm MS/M	ORGFM_28	MOD_NM/8	B/5035FP_C										i Number d	en instand din din din din din din din din din d						
<u>אמווואי ועפוונוורמווטוי - טופוורוט (רמט וט)</u>	Sample Date	lime	<u>G=grab) </u> e	BT=Tissue, A=Air)	100000	30	1							and the second second	The second second			T	16.	Special Instructions/Note	ial In	stru	ctior	IS/Not	e.
	X		Preservation Code:	ion Code:	X		i de la como	-	- isond	10.000			in a fair		- Burner	<u>, herdiya</u> A	in the second	X	T		V		h		and the second second
PHU8 (890-567-19)	4/21/21	Mountain		Solid		×	×	×			†	<u> </u>							mine						
PH09 (890-567-20)	4/21/21	10 45 Mountain		Solid		×	×	×										4	<u>astradli</u>		i				
PH09 (890-567-21)	4/21/21	10 47 Mountain		Solid		×	×	×										<u>a</u> .	and the second						
FS02 (890-567-22)	4/21/21	14 56 Mountain		Solid		×	×	×										ايد.	ht-hatter						
SW01 (890-567-23)	4/21/21	16 14 Mountain		Solid	_	×	×	×										-	terreped						
SW02 (890-567-24)	4/21/21	15 47 Mountain		Solid	_	×	×	×										<u>*</u>	eessawii ii						
SW03 (890-567-25)	4/21/21	15 56 Mountain		Solid	_	×	×	×				-+							inin 8						
SW04 (890-567-26)	4/21/21	16 03 Mountain		Solid	_	×	×	×																	
FS01 (890-567-27)	4/22/21	08 17 Mountain		Solid		×	×	×										الم الطنير	<u>rene untra d</u> e						
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.	_C places the ownershi rix being analyzed the s return the signed Chain	p of method ana samples must be of Custody attes	alyte & accredi shipped back sting to said co	tation complia (to the Eurofir omplicance to	nce upor 1s Xenco Eurofins	i out su LLC lai Xenco I	bcontra porator _LC	act labo y or oth	pratori	əs. Th tructio	is san ns wil	nple s	nipme	ntisfi d An	orwar y cha	rded u	nder . to acc	chain redit	-of-cu	stody If th tatus shou	le labo Id be t	oraton, prougl	y does	not cu urofins	rrently Xenco
Possible Hazard Identification					Sa	Sample Disposal (A fe	Dispo)sal (A fe	e ma	be	asse	sse	d if s	amp	vles		etal	ned	e may be assessed if samples are retained longer than 1 month)	han 1	1 mo	inth)		
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank	able Rank 2			ds	Special Instructions/QC	nstru	al Instructions/QC		Requirements	irem	ents	USal	by L	aD			AIC	Archive For	FOR			Months	ns	
Empty Kit Relinquished by		Date			Time								Met	Method of Shipment:	fShip	ment									
Relinquished by Arthon Arthon	Date/Time: U	12/21		Company		Record	ed by		N		N.		T		-D	Date/Time;	-, ⁰	2	٦		-		Company		
Relinquished by	Date/Time:	-0101		Company		Received by	red by	and	A)		N					Date/Time:	ie to		L	0. JUUN	X VV		Company		

Relinquished by

Date/Time:

Company

Received by

Date/Time:

Company Company

Ver 11/01/2020

Cooler Temperature(s) °C and Other Remarks.

Custody Seals Intact ∆ Yes ∆ No

Custody Seal No

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

13

💸 eurofins Environment Testing America

Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199				ustody Necord	e C																				-	Ame	America	HIER	ie	America
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer, Jessica	SSIC	2						Car	Carrier Tracking No(s)	ackin	g No	s				800	COC No: 890-182 4	4							
Client Contact Shipping/Receiving	Phone:			E-Mail	E-Mail lessica kramer@eurofinset.com	mer(n)eur	ofins	2	3			N Stat	State of Origin	rigin	- I				$ \downarrow$	Page	2	Page Page 4 of 4	-						
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Texas	P - T	is Req	uired	(See I	iote)			ſ							$ \rightarrow $		Job #: 890-587-1	<u>.</u>	ľ						
Address. 1211 W Florida Ave	Due Date Requested 4/29/2021	ied							>	Analy	lvsis	Re	Requested	ste	1						Pre	Serv	Preservation Codes	ŝ	deg	"				
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State, Zip. TX, 79701	1				<u> Shandi ana a</u>	<u>, i lodosofik</u>														E andiounitie	m 0 c	Natio 2	zn Acetate Nitric Acid NaHSO4	- œ	о т <i>с</i>		AsnaO2 Na2O4S - Na2SO3	ವರಾಜ		
Phone: 432-704-5440(Tel)	PO#					ie	трн													lactas tik staas		Amd	MeOH Amchlor		(0 T	л л Ц Z	a2S2 2SO4	Ω Ω		Na2S2O3 H2SO4
Email	WO#					Berger	p Full					********								ndressallelta		Ascorbic . Ice DI Water	Ascorbic Acid ce DI Water	Acid	بر م م	T TSP Dode	2 P D)e	ahyc	frate
Project Name: Longviewe 12-15	Project #: RRNND2D3					alut ihlah	S_Pre	EX.											an an angar	liners		EDTA	٦		NSI	∵≥' 22 ອີ	pH 4-5 other (specify)	spec.	Ś	
Site	SSOW#:					an Mallan	5NM_	IC BT							·					Salu Zali	Other [.]	er.								
						Randhille	n/801	P_Cal											-	or of o										
		Sample	Sample Type		d Filtere form MS	ORGFM_	MOD_NN	B/6036FF												l Numbe										
Sample Identification - Client ID (Lab ID)	Sample Date	<u> </u>	672 <u> </u>	£	·	N Brand Mar	801	802			and the second	a a a a a a a a a a a a a a a a a a a	1			2 4		<u>.</u>		Tot		s	Special Instructions/Note	ial I	nst	ruci	ion	N/S	ote	
FS03 (890-567-28)	4/22/21	14 32	Solid	Solid	-	×	×	×				1				10.05		aria.	-	- 2						Ņ				Same and
FS04 (890-567-29)	4/22/21	14 55 Mountain		Solid		×	×	×				_																		
FS05 (890-567-30)	4/22/21	14 37 Mountain		Solid		×	×	×											74-14	<i>4</i> 6										
FS06 (890-567-31)	4/22/21	16 27 Mountain		Solid		×	×	×						-			\rightarrow						l							
FS07 (890-567-32)	4/22/21	16 38 Mountain		Solid		×	×	×				1		-	+	-+				atter (
FS08 (890-567-33)	4/22/21	16 15 Mountain		Solid		×	×	×									+			*										
FS09 (890-567-34)	4/22/21	16 35 Mountain		Solid		×	×	×												(A)										
SW05 (890-567-35)	4/22/21	16 22 Mountain		Solid		×	×	×											-	aller Santasa										
SW06 (890-567-36)	4/22/21	16 24 Mountain		Solid		×	×	×																						
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.	c places the ownershii c being analyzed the s turn the signed Chain	p of method ana samples must be of Custody attee	alyte & accredit a shipped back sting to said co	ation complian to the Eurofins mplicance to E	ce upo Xenco urofins	n out s b LLC s Xenc	subcor labora o LLC	ntract tory o	labora r othe	torie: r instr	. Thi	s san ts will	ple st	nipme	ntist Ar	'orwa Iy cha	rded	unde to a	r cha	lin-of	on st	stody	If the	ne lat) bro	lory c	to EL	Inot c	urrei 1s Xe	ntly
Possible Hazard Identification Unconfirmed					S	Sample Disposal (A fee	le Disposal (A f Return To Client	n pose		fee	may	be	assessed if samples are retained longer	sse	BY	ab	oles	□ are	⊔ ret	tained long Archive For	ed	ong	er t	than 1	1	month)	inth)	ō		
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Empty Kit Relinquished by		Date			Time		$\left \right\rangle$							Me	Method of Shipment:	f Shi	pmer	ā												
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Relinquished by	Date/Time:		0	Company		Rec	Received by	y.								D	Date/Time:	ne:								Company	vany			
Custody Seals Intact Custody Seal No ∆ Yes ∆ No						Coo	Cooler Temperature(s) °C	npera	ture(s) ို	and Ot	her R	Other Remarks	ŝ		F				1					F					

Ver 11/01/2020
Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 567 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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

Job Number: 890-567-1 SDG Number: TE034821014

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 567 List Number: 2 Creator: Copeland, Tatiana

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

<6mm (1/4").

List Source: Eurofins Midland

List Creation: 04/26/21 09:15 AM

Received by OCD: 7/8/2021 9:49:30 AM

1 2 3 4 5 6 7 8 9 10 11 12 13

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-665-1

Laboratory Sample Delivery Group: TE034821014 Client Project/Site: Longview 12-15H

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/18/2021 4:51:48 PM

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

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

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

Ask The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 7/20/2021 9:09 57 AM

LINKS

Review your project results through

Total Access

Have a Question?

•

Laboratory Job ID: 890-665-1 SDG: TE034821014

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QC Association Summary	11
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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Longview 12-15H

Job ID: 890-665-1 SDG: TE034821014

,	5	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
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		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	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)	12
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)	
THITO		

TNTC Too Numerous To Count

Job ID: 890-665-1 SDG: TE034821014

Job ID: 890-665-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-665-1

Receipt

The samples were received on 5/13/2021 9:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS07A (890-665-1) and FS08A (890-665-2).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-3118 recovered above the upper control limit for Benzene and Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FS07A (890-665-1), FS08A (890-665-2) and (CCV 880-3118/20).

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

RL

0.00202

0.00202

0.00202

0.00404

0.00202

0.00404

0.00404

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

Client: WSP USA Inc. Project/Site: Longview 12-15H

Client Sample ID: FS07A

Date Collected: 05/11/21 08:10 Date Received: 05/13/21 09:24

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: - 4.5

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Job ID: 890-665-1 SDG: TE034821014

Lab Sample ID: 890-665-1

Analyzed

05/14/21 20:12

05/14/21 20:12

05/14/21 20:12

05/14/21 20:12

05/14/21 20:12

05/14/21 20:12

05/14/21 20:12

Analyzed

05/14/21 20:12

05/14/21 20:12

Analyzed

Lab Sample ID: 890-665-2

Matrix: Solid

Prepared

05/14/21 13:30

05/14/21 13:30

05/14/21 13:30

05/14/21 13:30

05/14/21 13:30

05/14/21 13:30

05/14/21 13:30

Prepared

05/14/21 13:30

05/14/21 13:30

Prepared

D

D

Matrix: Solid

5 Dil Fac Dil Fac Dil Fac

1

1

1

1

1

1

Organics (DI	RO) (GC)		
Result	Qualifier	RL	
<49.9	U	49.9	
	Result	Organics (DRO) (GC)ResultQualifier<49.9	Result Qualifier RL

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00404 U

<0.00202 U

<0.00404 U

<0.00404 U

%Recovery Qualifier

109 99

Gasoline Range Organics	<49.9	U	49.9	mg/Kg	 05/14/21 13:14	05/15/21 23:29	1	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	05/14/21 13:14	05/15/21 23:29	1	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	05/14/21 13:14	05/15/21 23:29	1	
Total TPH	<49.9	U	49.9	mg/Kg	05/14/21 13:14	05/15/21 23:29	1	
					_			

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	94		70 - 130	05/14/21 13:14	05/15/21 23:29	1
	o-Terphenyl	97		70 - 130	05/14/21 13:14	05/15/21 23:29	1
ļ							

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2130		25.2	mg/Kg			05/18/21 13:49	5

Client Sample ID: FS08A Date Collected: 05/11/21 08:12 Date Received: 05/13/21 09:24

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/14/21 13:30	05/14/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/14/21 13:30	05/14/21 20:38	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/21 13:30	05/14/21 20:38	1

Client Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15H

Client Sample ID: FS08A

Date Collected: 05/11/21 08:12 Date Received: 05/13/21 09:24

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/14/21 13:14	05/15/21 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/14/21 13:14	05/15/21 23:49	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/14/21 13:14	05/15/21 23:49	1
Total TPH	<49.9	U	49.9	mg/Kg		05/14/21 13:14	05/15/21 23:49	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130			05/14/21 13:14	05/15/21 23:49	
p-Terphenyl	100		70 - 130			05/14/21 13:14	05/15/21 23:49	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	591		5.05	mg/Kg			05/18/21 13:54	

Job ID: 890-665-1 SDG: TE034821014

Lab Sample ID: 890-665-2

Matrix: Solid

Eurofins Xenco, Carlsbad

Released to Imaging: 7/20/2021 9:09:57 AM

Job ID: 890-665-1 SDG: TE034821014

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-665-1	FS07A	109	99	
390-665-2	FS08A	109	102	
LCS 880-3114/1-A	Lab Control Sample	97	106	
_CSD 880-3114/2-A	Lab Control Sample Dup	81	114	
MB 880-3114/5-A	Method Blank	73	82	
Sumo note Lenond				
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

—				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-665-1	FS07A	94	97		
890-665-2	FS08A	94	100		
LCS 880-3125/2-A	Lab Control Sample	104	98		
LCSD 880-3125/3-A	Lab Control Sample Dup	106	98		
MB 880-3125/1-A	Method Blank	98	103		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

QC Sample Results

5

7

Job ID: 890-665-1 SDG: TE034821014

Prep Type: Total/NA

Client Sample ID: Method Blank

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3114/5-A

Matrix: Solid alveie Ratek

Client: WSP USA Inc.

Project/Site: Longview 12-15H

Analysis Batch: 3118							Prep Bate	:h: 3114
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/14/21 10:38	05/14/21 13:53	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130			05/14/21 10:38	05/14/21 13:53	1
1,4-Difluorobenzene (Surr)	82		70 - 130			05/14/21 10:38	05/14/21 13:53	1

Lab Sample ID: LCS 880-3114/1-A Matrix: Solid

Analysis Batch: 3118

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	
Toluene	0.100	0.1009		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-3114/2-A Matrix: Solid

Analysis Batch: 3118							Pre	p Batch	: 3114
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1006		mg/Kg		101	70 - 130	9	35
Toluene	0.100	0.09776		mg/Kg		98	70 - 130	3	35
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2092		mg/Kg		105	70 - 130	2	35
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	1	35
LCSD LCSD									

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA	
Prep Batch: 3114	1

Prep Type: Total/NA

QC Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15H

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

Lab Sample ID: MB 880-3125/1	- A									Client Sa	ample ID: Meth	od Blank
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 3146											Prep Ba	tch: 3125
		ΜВ	MB									
Analyte	Re	sult	Qualifier	F	RL		Unit		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<	50.0	U	50	0.0		mg/ł	ίg		05/14/21 13:14	05/15/21 17:31	1
(GRO)-C6-C10												
Diesel Range Organics (Over C10-C28)	<	50.0	U	50	0.0		mg/ł	(g		05/14/21 13:14	05/15/21 17:31	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50	0.0		mg/ł	ξg		05/14/21 13:14	05/15/21 17:31	1
Total TPH	<{	50.0	U	50	0.0		mg/ł	ζg		05/14/21 13:14	05/15/21 17:31	1
		ΜВ	MB									
Surrogate	%Recov	very	Qualifier	Limits						Prepared	Analyzed	Dil Fac
1-Chlorooctane		98		70 - 130	0					05/14/21 13:14	05/15/21 17:31	1
o-Terphenyl		103		70 - 130	0					05/14/21 13:14	05/15/21 17:31	1
с Г ...												
Lab Sample ID: LCS 880-3125/	' 2-A								C	lient Sample	ID: Lab Contro	-
Matrix: Solid											Prep Type:	
Analysis Batch: 3146												tch: 3125
				Spike		LCS					%Rec.	
Analyte				Added			Qualifier	Unit		D %Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10				1000		924.7		mg/Kg]	92	70 - 130	
Diesel Range Organics (Over C10-C28)				1000		1036		mg/Kg	J	104	70 - 130	
	LCS	LCS										
Surrogate	%Recovery	Qua	lifier	Limits								
1-Chlorooctane	104			70 - 130								
o-Terphenyl	98			70 - 130								
Lab Sample ID: LCSD 880-312	5/3-A							C	lient	Sample ID: L	ab Control Sa	
Matrix: Solid											Prep Type:	
Analysis Batch: 3146											Prep Ba	tch: 3125
				Spike		LCSD	LCSD				%Rec.	RPD
Analyte				Added		Result	Qualifier	Unit		D %Rec	Limits R	PD Limit
Gasoline Range Organics				1000		950.6		mg/Kg	J	95	70 - 130 1	99 20
(GRO)-C6-C10				1000		4054			_	405	70 400 4	07 00
Diesel Range Organics (Over C10-C28)				1000		1051		mg/Kg	J	105	70 - 130 1	97 20
010 020)												
	LCSD											
Surrogate	%Recovery	Qua	lifier	Limits								
1-Chlorooctane	106			70 - 130								
o-Terphenyl	98			70 - 130								
Method: 300.0 - Anions, Io	n Chromato	ogra	aphy									
Lab Sample ID: MB 880-3181/1	- A									Client Sa	ample ID: Meth	od Blank
Matrix: Solid											· Prep Type	
Analysis Batch: 3182												
-		ΜВ	МВ									
Analyte	Re	sult	Qualifier	F	RL		Unit		D	Prepared	Analyzed	Dil Fac
Chloride	<	5.00	U		.00		mg/ł	ζg			05/18/21 12:26	1
							2					

Job ID: 890-665-1 SDG: TE034821014 Client: WSP USA Inc.

Project/Site: Longview 12-15H

Job ID: 890-665-1 SDG: TE034821014

Method: 300.0 - Anions, Ion Chromatography (Continued)

- Lab Sample ID: LCS 880-3181/2							Client	Samp	le ID: Lab Co	ontrol S	omplo
Matrix: Solid	-A						Chem	Samp		Type: S	
Analysis Batch: 3182									пер	Type. O	oluble
Analysis Baten. 0102			Spike	LCS	LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	252.8		mg/Kg		101	90 - 110		
-						0 0					
Lab Sample ID: LCSD 880-3181	/ 3-A					Clier	nt Sam	ple ID:	Lab Contro	l Sampl	e Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 3182											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	249.8		mg/Kg		100	90 - 110	1	20
_											
Lab Sample ID: 890-665-2 MS									Client Sam	-	
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 3182											
		Sample	Spike		MS		_		%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	591		253	832.0		mg/Kg		96	90 _ 110		
Lab Sample ID: 890-665-2 MSD									Client Sam	ple ID: F	-S08A
Matrix: Solid									Prep	Type: Se	oluble
Analysis Batch: 3182											
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	591		253	824.7		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H

Job ID: 890-665-1 SDG: TE034821014

GC VOA

Prep Batch: 3114

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-665-1	FS07A	Total/NA	Solid	5035	
890-665-2	FS08A	Total/NA	Solid	5035	
MB 880-3114/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-3114/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3114/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 3118					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-665-1	FS07A	Total/NA	Solid	8021B	3114
390-665-2	FS08A	Total/NA	Solid	8021B	3114
MB 880-3114/5-A	Method Blank	Total/NA	Solid	8021B	3114
_CS 880-3114/1-A	Lab Control Sample	Total/NA	Solid	8021B	3114
_CSD 880-3114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3114
iC Semi VOA					
rep Batch: 3125					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-665-1	FS07A	Total/NA	Solid	8015NM Prep	
890-665-2	FS08A	Total/NA	Solid	8015NM Prep	

GC Semi VOA

Prep Batch: 3125

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-665-1	FS07A	Total/NA	Solid	8015NM Prep	
890-665-2	FS08A	Total/NA	Solid	8015NM Prep	
MB 880-3125/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3125/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-665-1	FS07A	Total/NA	Solid	8015B NM	3125
890-665-2	FS08A	Total/NA	Solid	8015B NM	3125
MB 880-3125/1-A	Method Blank	Total/NA	Solid	8015B NM	3125
LCS 880-3125/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3125
LCSD 880-3125/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3125

HPLC/IC

Leach Batch: 3181

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-665-1	FS07A	Soluble	Solid	DI Leach	
890-665-2	FS08A	Soluble	Solid	DI Leach	
MB 880-3181/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3181/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3181/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-665-2 MS	FS08A	Soluble	Solid	DI Leach	
890-665-2 MSD	FS08A	Soluble	Solid	DI Leach	

Analysis Batch: 3182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-665-1	FS07A	Soluble	Solid	300.0	3181
890-665-2	FS08A	Soluble	Solid	300.0	3181
MB 880-3181/1-A	Method Blank	Soluble	Solid	300.0	3181
LCS 880-3181/2-A	Lab Control Sample	Soluble	Solid	300.0	3181
LCSD 880-3181/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3181
890-665-2 MS	FS08A	Soluble	Solid	300.0	3181

Eurofins Xenco, Carlsbad

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QC Association S	Summary
Client: WSP USA Inc.	Job ID: 890-665-1
Project/Site: Longview 12-15H	SDG: TE034821014
HPLC/IC (Continued)	
Analysis Batch: 3182 (Continued)	

	QC	Association Summa	ry		
Client: WSP USA Inc Project/Site: Longview			-		ob ID: 890-665-1 G: TE034821014
HPLC/IC (Contine	ued)				3
Analysis Batch: 318	2 (Continued)				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-665-2 MSD	FS08A	Soluble	Solid	300.0	3181 5
					8
					9
					13

Lab Chronicle

Client: WSP USA Inc. Project/Site: Longview 12-15H

Client Sample ID: FS07A Date Collected: 05/11/21 08:10

Date Received: 05/13/21 09:24

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3114	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3118	05/14/21 20:12	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 23:29	AJ	XM
Soluble	Leach	DI Leach			3181	05/17/21 15:21	СН	XM
Soluble	Analysis	300.0		5	3182	05/18/21 13:49	СН	XM

Client Sample ID: FS08A Date Collected: 05/11/21 08:12 Date Received: 05/13/21 09:24

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3114	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3118	05/14/21 20:38	MR	XM
Total/NA	Prep	8015NM Prep			3125	05/14/21 13:14	DM	XM
Total/NA	Analysis	8015B NM		1	3146	05/15/21 23:49	AJ	XM
Soluble	Leach	DI Leach			3181	05/17/21 15:21	СН	XM
Soluble	Analysis	300.0		1	3182	05/18/21 13:54	СН	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Job ID: 890-665-1 SDG: TE034821014

Lab Sample ID: 890-665-1

Lab Sample ID: 890-665-2

Matrix: Solid

Matrix: Solid

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9

10

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H Job ID: 890-665-1 SDG: TE034821014

Laboratory: Eurofins Xenco, Midland

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

hority	Pi	ogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, be	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not of		N 4 - 4	Arrelida	
Analysis Method	Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H

Job ID: 890-665-1 SDG: TE034821014

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XM
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
3015NM Prep	Microextraction	SW846	XM
OI Leach	Deionized Water Leaching Procedure	ASTM	XM

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:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H Job ID: 890-665-1 SDG: TE034821014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-665-1	FS07A	Solid	05/11/21 08:10	05/13/21 09:24	- 4.5
890-665-2	FS08A	Solid	05/11/21 08:12	05/13/21 09:24	- 4.5

Revised Date: 08/25/2020 Rev 2020.2		Ø1					C.
013.21 (H)	Live Curto	4 Maria Bay	5/13/2/000	Byens	amai		Jah UN
re) Date/Time	ire) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	(Signature)	Received by: (Signature)	by: (Signature)	Relinquished by: (S
	is and conditions rond the control previously negotiated.	Notice: Signature of this docurment 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 circumstance 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.	 Eurofins Xenco, Its affiliates ar expenses incurred by the client d to Eurofins Xenco, but not an 	d purchase order from client company t ume any responsibility for any losses or a charge of \$5 for each sample submitte	amples constitutes a valid samples and shall not assu- ilied to each project and a	nt and relinquishment of s iable only for the cost of s harge of \$85.00 will be app	Notice: Signature of this docum of service. Eurofins Xenco will b of Eurofins Xenco. A minimum of
Sr 11 Sn U V Zn 5.1 / 7470 / 7471	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr II Sn U V Z Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	Ca Cr Co Cu Fe Pb Tr Co Cu Pb Mn Mo	Al Sb As Ba Be B Cd CRA Sb As Ba Be Cd C	RA 13PPM Texas 11 A TCLP/SPLP 6010 : 8RCP	8RCRA Inalyzed To	200.8 / 6020: d Metal(s) to be a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
					Hart 6		
					1-1-1		roupe
				_	11 21	015	FS01A
Sample Comments			TP BT	pth Comp	Date Sampled	ation Matrix	Sample Identification
NaUH+ASCORDIC ACId: SAPC			H		Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn			(E	leading:	Temperature Reading:	Yes NO N/A	Sample Custody Seals:
Na 2S 2O3: NaSO 3	of Custody	890-665 Chain of Custody	PA	tor: L. Co		Yes No N/A	Cooler Custody Seals:
NaHSO 4: NABIS				ECOMN201	Thermometer ID:	Yes No	Samples Received Intact:
H ₃ PO ₄ : HP			80	Wet Ice: Yes No	(Ye) NO	Temp Blank:	SAMPLE RECEIPT
2			80	the lab, if received by 4:30pm			PO #:
HUI-HC HND - HN	-)	TAT the former work of the)	Eady county	Project Location:
-				WRush		E034821014	Project Number:
Preservative Codes		ANALYSIS REQU		n Around	12-1514	ondview	Project Name:
ADaPT Other:	Deliverables: EDD AD	com	po.homandeziausp.com	Email: 100. horns	2329	281-702-2329	Phone:
PST/UST TRRP Level IV	Reporting: Level II Level III	Nm 99	Cariabad,	City, State ZIP:	015 bt	midland,	City, State ZIP:
]	State of Project:	Buena Vista Dr	5315 8		th A Street	3300 North	6.2
Brownfields RRC Superfund	Program: UST/PST PRP BI	Energy	WPX E	Company Name:		R	
mm	Work Order Comments	Laumbach	Lynda	Bill to: (if different)	Hernantez	loseph He	Project Manager:
n Page of	www.xenco.com	id, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199	Hobbs,			
		ik, TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296		J	Xenco	
	Work Order No-	ns, TX (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300		Environment Testing		
		stody	Chain of Custody			2	

1

5 6

12 13

Chain of Custody

Received by OCD: 7/8/2021 9:49:30 AM

∆ Yes ∆ No			Relinquished by Loc WD D'13-21		Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	rossuje nazaru nenuncation Unconfirmed	maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples that the sample above to accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples that the samples that the samples that the samples that the sample above to accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples that the samples that the samples that the sample above to accreditation 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	lote: Since laboratory accreditations are subject to chance. Eurofins Xenco LLC						FS08A (890-665-2)	FS07A (890-665-1)		Sample Identification - Client ID (Lab ID)	Site:	Project Name: WSP - WPX General	Email	^{Dhone} 432-704-5440(Tel)	State Zip TX 79701	City Midland	1211 W Florida Ave	Eurofins Xenco	Client Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199
	Date/Time	Dave faille.	Date/Time:	Date/Time:		Primary Deliverable Rank		eing analyzed the s n the signed Chain	laces the ownershir						5/11/21	5/11/21	X	Sample Date	SSOW#	Project #: 88000203	WO#	PO#		TAT Requested (days)	Due Date Requested 5/18/2021		Phone.	Sampler.	
					Date	able Rank		of Custody at) of method a						08 12 Mountain	08 10 Mountain	X	Sample Time						iys)	đ				Chain of Custody Record
						N		be shipped ba esting to said	nalvte & accre								Preserva	Sample Type (C=comp, G=grab)											of Cus
	Company	Company	Company	Company				ck to the Euro complicance t	ditation compl						Solid	Solid	Preservation Code:	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=Air									E-Mail jessic	Lab	tody I
					Time	ş	S	ins Xence Eurofins									XXX	- Field Filtered Perform MS/N	1915353060°9739	101- Y 201 W	Stranger	Ar he we we	an a	it reduced			E-Mail lessica kramer@eurofinset com	Lab PM Kramer Jessica	Reco
Coole	Rece	Veve		Rece		Special Instructions/G	Sample Disposal (A	5 LLC Is Xenco							×	×		8015MOD_NM/8	8015NN	1_S_Pi	ep Full	TPH	alterature di	9644 <u>8</u> 7676.68		Accreditations Required (See note) NELAP - Louisiana NELAP -	mer@	ssica	ord
Cooler Temperature(s) °C	Received by	Ke Ballishav		Received by	\downarrow	Instru	le Disposal (A f Return To Client	LLC				ļ	ļ	 	×	×		300_ORGFM_2	8D/DI_I	EACH	Chlori	ide				Requi	eurof		
oeratur		ę	A			etions	osal (To Ci	iy or o			_				×	×		8021B/5035FP_	Calc B	TEX						na (Se	inset -		
0° (s)e		1	X		<u>`</u>	٥ç	A fe	ther ins						 			_	·-						-	Ana	∈ note) ELAP	com		
and C			K			Requi	e maj	tructio			+	-													lysis	- Texas			
ther R		(A)	\mathbb{Y}		C Requirements		ns will						 			industant								Rec	as			
and Other Remarks		$\left(\right)$	1	L		nts.	assessed if san Disposal By Lab	be prov						 			مينيم مرينيم								Analysis Requested		State d New	Carrie	
		/			Method		sed if sal By	vided						 											fed		State of Origin New Mexico	Carrier Tracking No(s):	
	D.	5	2 5		Method of Shipment:		Lab	Any cha	formula					 													8 2	ING No(
	Date/Time	Date/ Hime	15	te/Tim	oment		oles a	anges t				+-																s):	
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			1.000-	* V/1× *			fee may be assessed if samples are retained longer than 1 month) t Disposal By Lab Archive For Mont	n status should	intody if the l									Special	Other [.]	EDA				NaOH		Job #: 890-665-1	_{Page:} Page 1 of 1	COC No: 890-217 1	🔅 eurofins
	0		<u>.</u>				n 1 m	aborato be brou									I	Instr		NŞ	< < -		ουα) z z	odes				
	Company	Company		neanc			onth) Months	ight to Eurofins Xenco										pecial Instructions/Nofe		other (specify)		Na2S2O3 H2SO4 TSP Dodecahydrate	AsivaOz Na2O4S Na2SO3	None					Environment Testing America

Page 128 of 150

5

12 13 14



5/18/2021

Job Number: 890-665-1 SDG Number: TE034821014

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 665 List Number: 1

Creator: Clifton, Cloe

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

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

14

14

Job Number: 890-665-1 SDG Number: TE034821014

List Source: Eurofins Midland

List Creation: 05/14/21 11:11 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 665 List Number: 2 Creator: Copeland, Tatiana

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

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

Received by OCD: 7/8/2021 9:49:30 AM

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-668-1

Laboratory Sample Delivery Group: TE034821014 Client Project/Site: Longview 12-15H

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 5/18/2021 4:55:20 PM

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

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

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

LINKS **Review your project** results through **Total** Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env Released to Imaging: 7/20/2021 9:09:57 AM

Laboratory Job ID: 890-668-1 SDG: TE034821014

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Longview 12-15H

Job ID: 890-668-1 SDG: TE034821014

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
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	
	Indicates the analyte was analyzed for but not detected.	8
<u> </u>		0
Glossary		Q
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	4
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	
0050		

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

Job ID: 890-668-1 SDG: TE034821014

Job ID: 890-668-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-668-1

Receipt

The sample was received on 5/13/2021 9:24 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 1.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS10 (890-668-1).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

4

5

Job ID: 890-668-1

Matrix: Solid

5

SDG: TE034821014

Lab Sample ID: 890-668-1

Client Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15H

Client Sample ID: FS10

Date Collected: 05/11/21 08:15 Date Received: 05/13/21 09:24

Sample Depth: - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/14/21 13:30	05/15/21 09:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				05/14/21 13:30	05/15/21 09:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/14/21 13:30	05/15/21 09:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/14/21 15:47	05/15/21 01:29	1	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/14/21 15:47	05/15/21 01:29	1	
C10-C28)										
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/21 15:47	05/15/21 01:29	1	
Total TPH	<49.9	U	49.9		mg/Kg		05/14/21 15:47	05/15/21 01:29	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	107		70 - 130				05/14/21 15:47	05/15/21 01:29	1	
o-Terphenyl	112		70 - 130				05/14/21 15:47	05/15/21 01:29	1	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble								
Analyte	Result	Qualifier	RI	MDI	Unit	п	Prenared	Analyzod	Dil Fac	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	589	4.98	mg/Kg			05/18/21 15:14	1

Job ID: 890-668-1 SDG: TE034821014

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-668-1	FS10	112	101		
LCS 880-3119/1-A	Lab Control Sample	104	100		6
LCSD 880-3119/2-A	Lab Control Sample Dup	105	98		
MB 880-3104/5-A	Method Blank	106	94		7
MB 880-3119/5-A	Method Blank	108	94		
Surrogate Legend					8

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Γ				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID 890-668-1	Client Sample ID FS10	(70-130) 	(70-130) 112	
890-668-1 MS	FS10	100	93	
890-668-1 MSD	FS10	98	90	
LCS 880-3136/2-A	Lab Control Sample	104	97	
LCSD 880-3136/3-A	Lab Control Sample Dup	103	98	
MB 880-3136/1-A	Method Blank	128	133 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15H

Method: 8021B - Volatile Organic Compounds (GC)

_ Lab Sample ID: MB 880-3104/5-A								Client Sa	ample ID: Metho	od Blank
Matrix: Solid									Prep Type:	
Analysis Batch: 3103									Prep Bat	
·	МВ	МВ								
Analyte		Qualifier	RL		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	-	0.00200			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Toluene	< 0.00200		0.00200			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Ethylbenzene	<0.00200		0.00200			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
m-Xylene & p-Xylene	<0.00400		0.00400			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
o-Xylene	<0.00200		0.00200			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Xylenes, Total	<0.00400		0.00400			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
Total BTEX	<0.00400		0.00400			mg/Kg		05/14/21 10:11	05/14/21 13:16	1
						0 0				
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					05/14/21 10:11	05/14/21 13:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130					05/14/21 10:11	05/14/21 13:16	1
 Lab Sample ID: MB 880-3119/5-A								Client Sa	ample ID: Metho	od Blank
Matrix: Solid									Prep Type:	Total/NA
Analysis Batch: 3103									Prep Bat	
-	MB	MB								
Analyte	Result	Qualifier	RL		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Toluene	<0.00200	U	0.00200			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
o-Xylene	<0.00200	U	0.00200			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
Total BTEX	<0.00400	U	0.00400			mg/Kg		05/14/21 11:07	05/15/21 00:52	1
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130					05/14/21 11:07	05/15/21 00:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130					05/14/21 11:07	05/15/21 00:52	1
_ Lab Sample ID: LCS 880-3119/1-A								lient Sample	ID: Lab Control	Sample
Matrix: Solid								ounpro	Prep Type:	
Analysis Batch: 3103									Prep Bat	
Analysis Batch. 0100			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result		fier Ur	nit	D %Rec	Limits	
Fillingto										
Benzene			0.100	0.08144		m	g/Kg	81	70 - 130	
			0.100 0.100	0.08144 0.09298			g/Kg g/Kg	93		
Benzene						m	g/Kg		70 ₋ 130 70 ₋ 130 70 - 130	
Benzene Toluene			0.100	0.09298		mı mı		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

o Carlebad

5/18/2021

QC Sample Results

Job ID: 890-668-1 SDG: TE034821014

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

Lab Sample ID: LCSD 880-31 Matrix: Solid												ab Control Prep T		
Analysis Batch: 3103				Cuilco	1.000	1.00							Batch	
A maluán				Spike	LCSD			11	-	_	0/ Daa	%Rec.		RF
Analyte	·			Added	Result		littler	Unit	L	<u> </u>	%Rec	Limits	RPD	Lin
Benzene				0.100	0.08105			mg/Kg			81	70 - 130	0	:
Foluene				0.100	0.09352			mg/Kg			94	70 - 130	1	:
Ethylbenzene				0.100	0.09917			mg/Kg			99	70 _ 130	0	
n-Xylene & p-Xylene				0.200	0.1997			mg/Kg			100	70 - 130	1	
o-Xylene				0.100	0.1024			mg/Kg			102	70 - 130	0	
	LCSD	LCS	D											
Surrogate	%Recovery	Qua		Limits										
4-Bromofluorobenzene (Surr)	105	Guu		70 - 130										
1,4-Difluorobenzene (Surr)	98			70 - 130										
	50			10-100										
ethod: 8015B NM - Dies	el Range Or	gar	nics (DR	(GC) (OC)										
ah Camala ID: MD 000 0400	4. 8													
ab Sample ID: MB 880-3136	/ 1-A										unent Sa	ample ID: M		
Matrix: Solid												Prep T		
Analysis Batch: 3108												Prep	Batch	1: 31
	_		MB						_	_				
nalyte			Qualifier		RL	MDL	Unit		<u>D</u>		epared	Analyze		Dil
Gasoline Range Organics GRO)-C6-C10	<	50.0	U	5	0.0		mg/Kg		05	5/14	/21 15:47	05/15/21 0	0:26	
viesel Range Organics (Over 210-C28)	<	50.0	U	5	0.0		mg/Kg		05	5/14	/21 15:47	05/15/21 0	0:26	
Oll Range Organics (Over C28-C36)	<	50.0	U	5	0.0		mg/Kg		05	5/14	/21 15:47	05/15/21 0	0:26	
otal TPH	<	50.0	U	5	0.0		mg/Kg		05	5/14	/21 15:47	05/15/21 0	0:26	
		ΜВ	МВ											
Surrogate	%Reco	verv	Qualifier	Limits						Pr	epared	Analyze	ed	Dil
-Chlorooctane		128							0!		1/21 15:47	05/15/21 0		
-Terphenyl			S1+	70 - 13							1/21 15:47	05/15/21 0		
ab Sample ID: LCS 880-313	6/2-A								Clie	nt	Sample	ID: Lab Co	ntrol S	Sam
Matrix: Solid												Prep T	ype: To	otal/
Analysis Batch: 3108												Prep	Batch	n: 31
				Spike	LCS	LCS	5					%Rec.		
nalyte				Added	Result	Qua	lifier	Unit	[D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10				1000	898.1			mg/Kg			90	70 - 130		
Diesel Range Organics (Over C10-C28)				1000	1059			mg/Kg			106	70 - 130		
	LCS	LCS												
Surrogate	%Recovery	Qua	lifier	Limits										
I-Chlorooctane	104			70 - 130										
-Terphenyl	97			70 - 130										
								•			ala 18 d	ah Osata i	0	
								Cli	ent Sa	am	pie ID: L	ab Control		
-	36/3-A											Prep T	vno: To	otal/l
Matrix: Solid	36/3-A													
Matrix: Solid	36/3-A												Batch	
Matrix: Solid	36/3-A			Spike	LCSD	LCS	D							n: 31
Lab Sample ID: LCSD 880-31 Matrix: Solid Analysis Batch: 3108 Analyte	36/3-A			Spike Added	LCSD Result			Unit	ſ	5	%Rec	Prep		

Job ID: 890-668-1 SDG: TE034821014

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

Lab Sample ID: LCSD 880-3136/	'3-A					C	lient Sai	mple ID:	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 3108			•							p Batch	
• • • •			Spike				_		%Rec.		RP
Analyte			Added		t Qualifi		D	%Rec	Limits		Lim
Diesel Range Organics (Over C10-C28)			1000	1061		mg/Kg		106	70 _ 130	0	2
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130	-							
p-Terphenyl	98		70 - 130								
Lab Sample ID: 890-668-1 MS									Client Sa	nple ID	: FS1
Matrix: Solid										ype: To	
Analysis Batch: 3108										p Batch	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	-	Qualifier	Added	Resul	t Qualifi	er Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9		996	964.3		mg/Kg	<u> </u>	95	70 - 130		
GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1149	,	mg/Kg		115	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
I-Chlorooctane	100		70 - 130	-							
-Terphenyl	93		70 - 130								
Matrix: Solid Analysis Batch: 3108	Sample	Sample	Spike	MSE	MSD					ype: To p Batch	
Analyte	Result	Qualifier	Added	Resul	t Qualifi	er Unit	D	%Rec	Limits	RPD	Lin
Basoline Range Organics	<49.9	U	996	967.3	3	mg/Kg		95	70 - 130	0	:
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1103	3	mg/Kg		111	70 _ 130	4	
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
	98		70 - 130	-							
o-Terphenyl	90		70 - 130								
ethod: 300.0 - Anions, Ion	Chromat	ography									
.ab Sample ID: MB 880-3181/1-/	^							Client	Comple ID.	Mathad	Plan
Lab Sample ID: MB 880-3181/1-/ Matrix: Solid								Gliefit	Sample ID:	Method Type: S	
									Fieb	Type. 3	olub
Analysis Batch: 3182		MB MB									
Analyte	R	esult Qualifier		RL	MDL U	Init	D	Prepared	Analyz	ed	Dil Fa
Chloride		<5.00 U		5.00	n	ng/Kg			05/18/21	12:26	
_ab Sample ID: LCS 880-3181/2	- A						Clien	it Sample	e ID: Lab Co	ontrol S	amp
Matrix: Solid									Prep	Type: S	olub
Analysis Batch: 3182											
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Rosul	t Qualifi	or Unit	D	%Rec	Limits		
- nalyte			Audeu	Regui	Quaim	er Unit		/ortec	Linits		

QC Sample Results

Client: WSP USA Inc. Project/Site: Longview 12-15H

Job ID: 890-668-1 SDG: TE034821014

Method: 300.0 - Anions, Ion Chromatography

ab Sample ID: LCSD 880-3181/3-A				Clier	nt Sam	nole ID: I	_ab Contro	I Sampl	e Dup	
atrix: Solid								Type: So		
nalysis Batch: 3182								3 1		
	Spike	LCSD	LCSD				%Rec.		RPD	
nalyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	E
loride	250	249.8		mg/Kg		100	90 - 110	1	20	
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QC Association Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H

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Job ID: 890-668-1 SDG: TE034821014

GC VOA

Analysis Batch: 3103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-668-1	FS10	Total/NA	Solid	8021B	3119
MB 880-3104/5-A	Method Blank	Total/NA	Solid	8021B	3104
MB 880-3119/5-A	Method Blank	Total/NA	Solid	8021B	3119
LCS 880-3119/1-A	Lab Control Sample	Total/NA	Solid	8021B	3119
LCSD 880-3119/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3119
Prep Batch: 3104					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3104/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 3119					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-668-1	FS10	Total/NA	Solid	5035	
MB 880-3119/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3119/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3119/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 3108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-668-1	FS10	Total/NA	Solid	8015B NM	3136
MB 880-3136/1-A	Method Blank	Total/NA	Solid	8015B NM	3136
LCS 880-3136/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3136
LCSD 880-3136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3136
890-668-1 MS	FS10	Total/NA	Solid	8015B NM	3136
890-668-1 MSD	FS10	Total/NA	Solid	8015B NM	3136

Prep Batch: 3136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-668-1	FS10	Total/NA	Solid	8015NM Prep	
MB 880-3136/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3136/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3136/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-668-1 MS	FS10	Total/NA	Solid	8015NM Prep	
890-668-1 MSD	FS10	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3181

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-668-1	FS10	Soluble	Solid	DI Leach	
MB 880-3181/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3181/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3181/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-668-1	FS10	Soluble	Solid	300.0	3181
MB 880-3181/1-A	Method Blank	Soluble	Solid	300.0	3181
LCS 880-3181/2-A	Lab Control Sample	Soluble	Solid	300.0	3181
LCSD 880-3181/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3181

Eurofins Xenco, Carlsbad

Released to Imaging: 7/20/2021 9:09:57 AM

Lab Chronicle

Client: WSP USA Inc. Project/Site: Longview 12-15H

Client Sample ID: FS10 Date Collected: 05/11/21 08:15

Date Received: 05/13/21 09:24

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3119	05/14/21 13:30	MR	XM
Total/NA	Analysis	8021B		1	3103	05/15/21 09:18	MR	XM
Total/NA	Prep	8015NM Prep			3136	05/14/21 15:47	DM	XM
Total/NA	Analysis	8015B NM		1	3108	05/15/21 01:29	AJ	XM
Soluble	Leach	DI Leach			3181	05/17/21 15:21	СН	XM
Soluble	Analysis	300.0		1	3182	05/18/21 15:14	СН	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Job ID: 890-668-1 SDG: TE034821014

Lab Sample ID: 890-668-1 Matrix: Solid

Released to Imaging: 7/20/2021 9:09:57 AM

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Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H Job ID: 890-668-1 SDG: TE034821014

Laboratory: Eurofins Xenco, Midland

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

hority	Pi	ogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, be	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not of		N 4 - 4	Arrelida	
Analysis Method	Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H

Job ID: 890-668-1 SDG: TE034821014

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

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:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Longview 12-15H Job ID: 890-668-1 SDG: TE034821014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-668-1	FS10	Solid	05/11/21 08:15	05/13/21 09:24	- 4.5	4
						5
						8
						9
						12
						1:

Act (1) (signature) (signature	from client company to Eurofr ibility for any losses or expense r each sample submitted to Eur	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be BC Ca Cr Co Cu Fe Pb Mg Mn Mo No No		The second secon		FGID 5 5/11/21 0815 4.5' 1 X X	Sample Identification Matrix Sampled Sampled Depth Comp Cont 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Corrected Temperature:	:: Yes No N/A Temperature Reading: 1.6	Para Para	Temp Blank: (Yes No Wet/ce: (Yes) No ete	the lab, if received by 4:30pm	Faitma Comit TAT starts the day received by		5H Turn Around	Email: Joe. hernande	City, State ZIP: Midland, TX 79705 City, State ZIP: Caribbad	3300 North A Streat Address 5315	MACH USA Company Name: WPX E	Project Manager: UCEOCO HORDARDEZ Bill to: (If different) Luncha Lat	Hobbs, NM (575) 392-7550, Cansbad, NM (575) 988-3199	Xenco EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Environment Testing Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
a amount by pigitation of the case of the		Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn r Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470/7471					Sample Comments	NaOH+Ascorbic Acid: SAPC	890-668 Chain of Custody Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO 3	H ₃ PO 2: HP	H ₂ So ₄ : H ₂ NaOH: Na	HCL: HC HNO 3: HN	Cool: Cool MeOH: Me	ervative	Y Deliverables: EDD ADaPT Other:	NIM 8220 Reporting: Level II Level III PST/UST	Dr State of Project:	21CQL Program: UST/PST PRP Brownfields RRC Superfund	Gillin bording Work Order Comments	www.xenco.com Page of	TX (806) 794-1296	5, TX (210) 509-3334 Work Order No:

13

Chain of Custody

Received by OCD: 7/8/2021 9:49:30 AM

Eurofins Xenco, Carlsbad												Ĩ						-													
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Client Information (Sub Contract Lab)	Sampler:			Lab PM	≤								Ca	Carrier Tracking No(s).	rack	N BU	o(s)				Q	COC No:	Ō								
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Company Eurofins Xenco					Accreditations Required (See note)	D - T	s Req	uired	(See	note)			h								<u>;</u> ; ; ;	Job #:	Job #:	· ·							
Address.	Due Date Requested	Å																1			<u>,</u>	ese	Preservation Codes	<u>מ</u> וֹי	3	8					
1211 W Florida Ave City	5/18/2021	1			and the second	2	1	1	∣⊳	Analysis	l'sis		Requested	ste	ă				1		<u>⊢</u> .	н	ř	14	5	Z Z	Нех	Hexane			
Midland	IAI Kequested (days)	ys)				<u>Altebrand</u>														, 	<u>ം</u> നം പ്രംപ്രം വമ:		βĨ	fate		oz:	Non	5 B B 5 C			
State, Zip TX, 79701					<u>innersen geg</u> <u>innersen geg</u>	<u>ndutanan d</u>							<u></u>		<u> </u>					e e e e e e e e e e e e e e e e e e e	пσс		211 Acetate Nitric Acid NaHSO4	icid		οvç	Q - AsNaO2 P Na2O4S Q - Na2SO3	04S 04S			
Phone: 432-704-5440(Tel)	PO #					le Ie	TPH														ເດັ 1		MeOH Amchlor	Y		S R	Na2 H2S	04 04	ū		
Email	WO#				STREET Y Y Y	Chloric	p Fuli														en de la contraction de la contraction Contraction de la contraction de la cont		ASCOIDIC ACIO Ce Di Water	ar Nic Ad		< c -	Acetone	tone	fecat	hydra	ate
Project Name: Longview 12-15H	Project #: 88000203					ACH	S_Pre	EX												ainer			EDTA EDA			N≶		pH 4-5 other (specify)	ecify	÷	
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FS10 (890-668-1)	5/11/21	08 15 Mountain		Solid		×	×	×												4	uter (100 (A)			all and a second se	10 C C	1-2000000		
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Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped had to the Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shippent 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 had to the Eurofins Xenco LLC places the owner the samples must be shipped had to the Eurofins Xenco LLC places the owner the samples must be shipped had to the Eurofins Xenco LLC places the owner to currently for the samples must be shipped had to the Eurofins Xenco LLC places the owner to currently for the samples must be shipped had to the Eurofins Xenco LLC places the owner to currently for the samples must be shipped had to the Eurofins Xenco LLC places the owner to currently for the samples must be shipped had to the Eurofine Xenco LLC places the owner to currently for the samples must be shipped had to the Eurofine Xenco LLC places the owner to currently for the samples must be shipped had to the Eurofine Xenco LLC places the owner to currently for the samples must be shipped had to the formation of the formation of the samples to the formation of the formation	places the ownership being analyzed the sa	of method ana amples must be	alyte & accredit shipped back	ation complian	Xenco	nouts	subcor	Itract	labora	atorie	Th	is sar	nple	hipm	enti	for	arde	n n n	dero	hain	e e	usto	dy	If the	labo	rator	y doe	3S NO	, č	rent	<
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Page 17 of 19

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Released to Imaging: 7/20/2021 9:09:57 AM

Ver 11/01/2020

Job Number: 890-668-1 SDG Number: TE034821014

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 668 List Number: 1

Creator: Clifton, Cloe

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

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

14

Job Number: 890-668-1 SDG Number: TE034821014

List Source: Eurofins Midland

List Creation: 05/14/21 11:13 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 668 List Number: 2 Creator: Copeland, Tatiana

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

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

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	35467
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	None	7/20/2021

Page 150 of 150 CONDITIONS

Action 35467