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	nAPP2107743055
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Desponsible	Dorty: W/DV	Energy Dermion	HC		OGPID: 2	246280	
Responsible Party: WPX Energy Permian, LLC Contact Name: Jim Raley			OGRID: 246289 Contact Telephone: 575-689-7597				
Contact Name: Jim Raley Contact email: james.raley@wpxenergy.com		Incident # (assigned by OCD) nAPP2107743055					
					incident #	(assigned by OCD)) nAPP210//43055
Contact mail 88220	ing address:	5315 Buena Vista	a Dr., Carlsbad N	NM			
			Location	n of R	Release S	ource	
Latitude 32.3	41568					-104.0275116 _	
			(NAD 83 in c	decimal de	egrees to 5 deci	mal places)	
Site Name: L	ONGVIEW	FEDERAL 31 #0	01H		Site Type:	Oil Production	Facility
Date Release	Discovered	: March 16 th , 2021			API# (if ap)	plicable) 30-015-42	049
Unit Letter	Section	Township	Danga		Cour	ntr	1
C	06	23S	Range 29E	Edd		шу	-
							J
Surface Owne	r: State	∑ Federal	ribal 🗌 Private	(Name:)
			NT 4	1 \$ 7		D I	
			Nature an	ia vo	iume of .	Release	
				ch calcula	tions or specific		e volumes provided below)
Crude Oi	1	Volume Release	ed (bbls)			Volume Reco	overed (bbls)
Noduced Produced	Water	Volume Release	ed (bbls) 12			Volume Reco	overed (bbls) 0
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chlorid	e in the	⊠ Yes □ N	То
Condensa	ite	Volume Release				Volume Reco	overed (bbls)
Natural C	ias	Volume Release	ed (Mcf)			Volume Reco	overed (Mcf)
Other (de	scribe)	Volume/Weight	Released (provi	de units)	Volume/Weig	ght Recovered (provide units)
		n Error allowed pr arface and off loca		be push	ed through o	ppen ended pipin	g. Releasing approx. 12 bbls of
	satura	ited soil volume (ft ³)	41		1.0	:1 411
$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^{2})}{4.21(\frac{ft^{3}}{bbl\ equivalent})}*\ estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$							

Received by OCD: 6/1/2021 9:32:22 AM State of New Mexico Oil Conservation Division Page 2

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Produced water impacted what could be considered a drainage or waterway based on bed and bank present.
⊠ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? ail on 3/18/2021 to Robert Hamlet and Emily Hernandez
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Jame	s Raley Title: Environmental Specialist
Signature:	Ry
Signature:	Date:04/06/2020
email:james.raley@v	vpxenergy.com Telephone:575-689-7597
OCD Only Received by: Ramona	a Marcus Date:4/29/2021

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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23154

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
WPX ENERGY PERMIAN, LLC Devon Energy - Regulatory	246289	23154	C-141
333West Sheridan Ave. Oklahoma City, OK73102			

OCD Reviewer	Condition
rmarcus	None

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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?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data	ls.

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

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

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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. ____ _{Title:} Environmental Professional Printed Name: Jim Raley Date: 6/1/2021 Signature: email: jim.raley.dvn.com Telephone: 575-689-7597 **OCD Only** Received by: Date: _____

te of New Mexico

Incident ID	nAPP2107743055
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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.

A scaled site and sampling diagram as described in 19.15.29.11 N	NMAC		
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	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 D	sistrict office must be notified 2 days prior to final sampling)		
Description of remediation activities			
I hereby certify that the information given above is true and complete that and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a Coshould their operations have failed to adequately investigate and remed human health or the environment. In addition, OCD acceptance of a Compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditionation of the OCD accordance with 19.15.29.13 NMAC including notification to the OCD	C-141 report by the OCD does not relieve the operator of liability liate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in		
Printed Name: Jim Raley	Title: Environmental Professional		
101.	rate:6/1/2021		
email: jim.raley.dvn.com	elephone: 575-689-7597		
OCD Only			
Received by:	Date:		
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.		
Closure Approved by:	Date:		
Printed Name:	Title:		

wsp

WSP USA

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

May 26, 2021

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

RE: Closure Request

Longview Federal 31 #001H

Incident Number nAPP2107743055

Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of Devon Energy Corporation (Devon), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Longview Federal 31 #001H (Site) located in Unit C, Section 6, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and results of the soil sampling events, Devon is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2107743055.

RELEASE BACKGROUND

On March 16, 2021, human error allowed produced water to be pushed through open ended piping, resulting in the release of 12 barrels (bbls) of produced water onto the surface of the well pad and off location to the pasture south-southeast of the Site. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; however, the vacuum truck was not able to recover any produced water. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on April 6, 2020 and was assigned Incident Number nAPP2107743055.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation, to suggest the Site is conducive to shallow groundwater. Depth to groundwater at the Site is estimated to be greater than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted water well with depth to water data is New Mexico Office of the State Engineer (NMOSE) file number



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C-04417, located approximately 1.09 miles west of the Site. NMOSE well C-04417 was drilled by Devon on March 31, 2020 during a depth to water study of the area. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 55 feet bgs. No water was observed within the soil boring after 48 hours and the boring was plugged and abandoned. Ground surface elevation at the groundwater well location is 3,072 feet above mean sea level (amsl), which is approximately 28 feet lower in elevation than the Site. The NMOSE Well Record and Log of the referenced well is included as Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a stream/river, located approximately 1,292 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On March 16, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Based on visible staining in the release area and elevated field screening results, excavation appeared warranted.

On March 19, 2021, Devon submitted a Sundry request to the Bureau of Land Management (BLM), requesting permission to go off pad to remediate impacted soils via excavation to comply with the Closure Criteria, utilizing mechanized equipment within a 50-foot buffer of the release extent. On April 1, 2021, in reply to the request, BLM recommended that no mechanical work be completed within the drainage basin due to the spill being confined to such a small area within the basin and more damage would occur if equipment was utilized. Photographic documentation



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of the caliche shelf within the drainage off pad is provided in Attachment 2 and email correspondence in Attachment 3.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Between March 25 and March 29, 2021, WSP personnel were at the Site to oversee excavation activities. Impacted soil was excavated with a track-mounted excavator from the release area as indicated by visible staining and field screening. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Photographic documentation is included in Attachment 2.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation and sidewalls where applicable. 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 and SW02 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 FS30 were collected from the floor of the excavation from depths ranging from approximately 0.5 foot bgs to 4 feet bgs. The excavation 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 EPA Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. The excavation extent and excavation soil sample locations are presented on Figure 2.

The excavation area totaled approximately 6,193 square feet. A total of approximately 300 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico under Devon approved manifests. After completion of confirmation sampling, the excavation areas were secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW01 and SW02 and floor samples FS01 through FS30 indicated benzene, BTEX, TPH and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.



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CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 16, 2021 release of produced water. Laboratory analytical results for excavation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation appears required. Following approval of the Closure Request by NMOCD, WSP will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

WSP and Devon believe these remedial actions are protective of human health, the environment, and groundwater. As such, Devon respectfully requests NFA for Incident Number nAPP2107743055.

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

Sincerely,

WSP USA Inc.

Fatima Smith

Associate Consultant, Geologist

Daniel R. Moir, P.G.

Lead Consultant, Geologist

cc: James Raley, Devon

Bureau of Land Management

Attachments:

Figure 1 Site Location Map

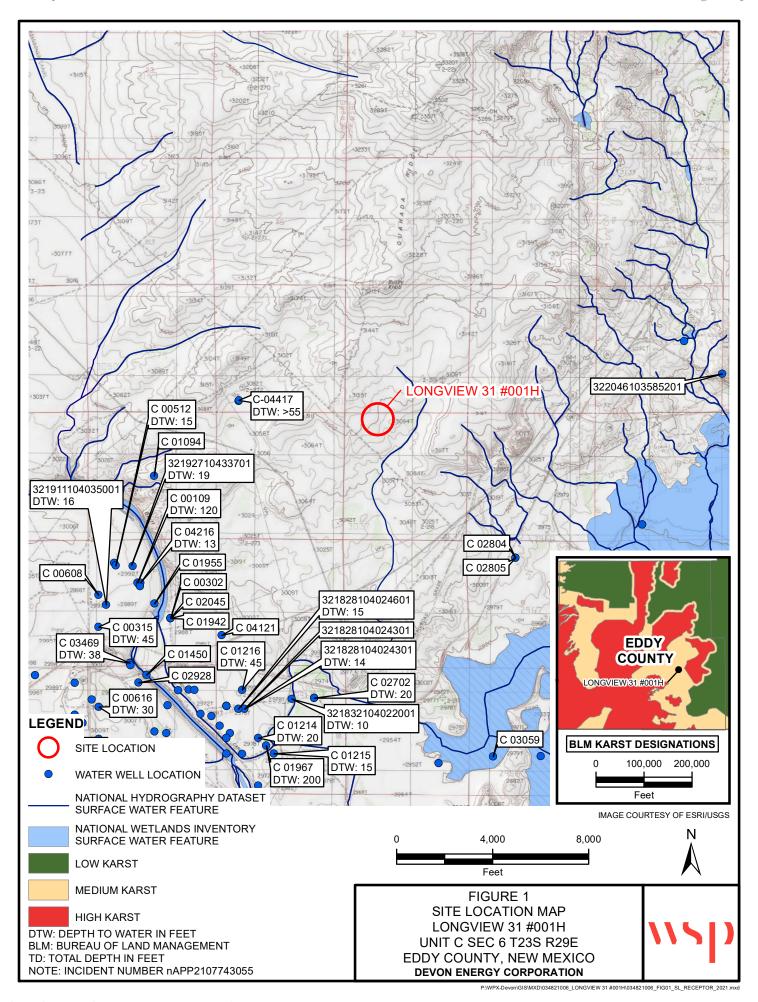
Figure 2 Excavation Soil Sample Locations

Table 1 Soil Analytical Results

Attachment 1 Referenced Well Records

Attachment 2 Photographic Log

Attachment 3 BLM Email Correspondence Attachment 4 Laboratory Analytical Reports



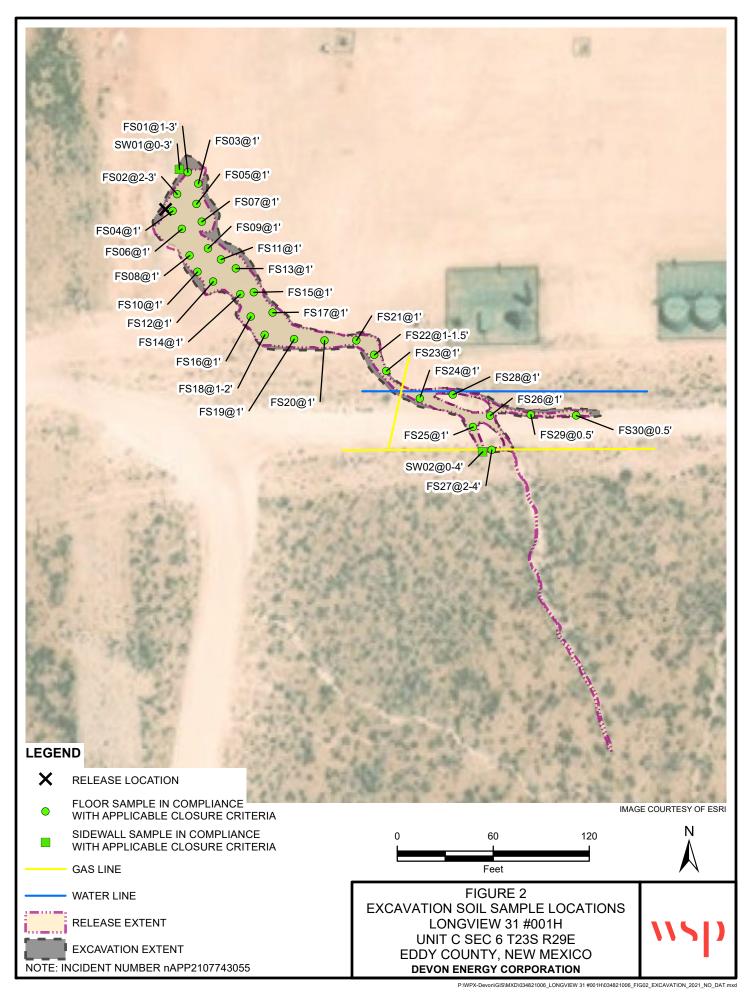


Table 1

Soil Analytical Results Longview Federal 31 #001H Incident Number nAPP2107743055 Devon Energy Corporation Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM.	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Sa	mples									
FS01	03/25/2021	1 - 3	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	545
FS02	03/25/2021	2 - 3	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	397
FS03	03/25/2021	1	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	219
FS04	03/25/2021	1	< 0.00201	< 0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	204
FS05	03/25/2021	1	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	128
FS06	03/25/2021	1	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	33.0
FS07	03/25/2021	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	87.3
FS08	03/25/2021	1	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	15.9
FS09	03/25/2021	1	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	135
FS10	03/25/2021	1	< 0.00199	< 0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	245
FS11	03/25/2021	1	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	174
FS12	03/25/2021	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	265
FS13	03/25/2021	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	213
FS14	03/25/2021	1	< 0.00199	0.00333	<50.0	<50.0	<50.0	<50.0	<50.0	151
FS15	03/25/2021	1	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	264
FS16	03/25/2021	1	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	177
FS17	03/25/2021	1	< 0.00202	< 0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	88.5
FS18	03/25/2021	1 - 2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	62.5
FS19	03/25/2021	1	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	53.7

Table 1

Soil Analytical Results Longview Federal 31 #001H Incident Number nAPP2107743055 Devon Energy Corporation 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
FS20	03/25/2021	1	< 0.00202	< 0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	168
FS21	03/25/2021	1	< 0.00200	< 0.00200	<49.9	56.5	<49.9	56.5	56.5	94.1
FS22	03/29/2021	1 - 1.5	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	34.4
FS23	03/29/2021	1	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	47.1
FS24	03/29/2021	1	0.00391	0.0153	<49.9	<49.9	<49.9	<49.9	<49.9	69.1
FS25	03/29/2021	1	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	< 50.0	284
FS26	03/29/2021	1	< 0.00199	0.0129	<49.9	59.2	<49.9	59.2	59.2	142
FS27	03/29/2021	2 - 4	0.00290	0.00290	<50.0	<50.0	<50.0	<50.0	< 50.0	214
FS28	03/29/2021	1	< 0.00199	< 0.00199	<50.0	<50.0	<50.0	<50.0	< 50.0	46.0
FS29	03/29/2021	0.5	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	96.5
FS30	03/29/2021	0.5	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	< 50.0	44.1
Excavation Sidewall	Samples									
SW01	03/25/2021	0 - 3	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	502
SW02	03/29/2021	0 - 4	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	73.6

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



	OSE POD NO). (WELL	NO.)			WELL TAG ID NO			OSE FILE NO	S).			
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*				·									
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ERA	(FROM GPS) LONGITUDE			-104	02	47.1	w	* DATUM RE	QUIRED: WGS 84				
GENERAL AND WELL LOCATION	DECCRIPTION				CTREET ADDR	ESS AND COLORO	NII ANIDACA	nve nic	e eremon re	WNSHЛР, RANGE) WH	EDE AVAILA	DIF	
1. G					SIREEI ADDR	ESS AND COMMO	N LANDMA	KKS-PLS	S (SECTION, TO	wnshiif, Kange) wh	EKE AVAILA	DLE	
_	M1-30-225	-28E; F	mna	cle State #25									
	LICENSE NO).	Т	NAME OF LICENSED	DRILLER					NAME OF WELL DR	LLING COMP	PANY	
	178	89				Mark Mumby				HRL C	ompliance S	olutions	
	DRILLING S	TARTED	, +	DRILLING ENDED	DEPTH OF CO	MPLETED WELL (F	m I	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR:	ST ENCOUNT	ERED (FT)	
	3/31/2			3/31/2020	221110100	55	"	2012110	55	1	vas not enc		
										STATIC WATER LEV	EL IN COMBI	ETED WE	CT (ET)
	COMPLETE	D WELL	IS:	ARTESIAN	✓ DRY HOL	E SHALLO	W (UNCON	FINED)		Water was not pro	esent in the	well afte	er 48-hour
NO													ŧ
ATI	DRILLING F	LUID:		AIR -	MUD	ADDITI	VES – SPECI	FY:					
CASING INFORMATION	DRILLING N	IETHOD	:	ROTARY	HAMMER	. CABLE	DLE TOOL OTHER - SPECIFY:			Hollo	w Stem Au	ıger	
F.	DEPTH	(feet be	,I)	T	CASING	MATERIAL AN	D/OR			GLERYS			
	FROM TO DIAM (inches)		BORE HOLE		GRADE			ASING NECTION	CASING INSIDE DIAM.	CASING THICK		SLOT SIZE	
Ž				each casing string		1	YPE	(inches)	(inch		(inches)		
CA		<u> </u>		` '	note s	sections of screen)		ling diameter)	` ′	,	<u> </u>	
3	0	4:		6.25		Blank PVC			h Thread	2.0	0.154		0.010
2. DRILLING &	45	5:	<u> </u>	6.25	Factory	Slotted PVC Scre	een	Flus	h Thread	2.0	0.15		0.010
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DR													
4.													
		.a :		1	1					Ī			
7	DEPTH	(feet bg	;l)	BORE HOLE	1	ST ANNULAR S				AMOUNT		METHO	
ANNULAR MATERIAL	FROM	TO)	DIAM. (inches)	GRA	VEL PACK SIZE	-RANGE	BY INTE	RVAL	(cubic feet)		PLACEM	LENI
ER					N N	lo Annular Seal N	laterial or	Gravel Pa	ick	None			
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	FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/19)												
FILE	ENO. (<u> </u>	141			POD NO	D. J		TRN	NO. 670	5 7 7	,	
Loc	ATION	4 کم	ч	77	2 6 12	795 5	5/	ľ	WELL TACE	A / /	1	PAGE	10E2

	DEPTH (feet bgl)	THICKNESS (feet)	INCLUDI	OR AND TE WATER-E	BEARING	CAVITIE	S OR F	FRACT	TURE ZOI	NES		TER RING? / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	55	55		Silt	Sand with	ı Interbedd	ed calic	che			Y	✓ N	0.00
												Y	N	
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	l _	_	STIMATE YIELD	-			***	 .	_		1	AL ESTIN LL YIELD		0.00
	PUMI	P	IR LIFT	BAILER	ОТНЕ	R – SPEC	IFY: Wate	er Not	Encou	ıntered			(85).	0.00
ISION	WELL TES		RESULTS - ATT T TIME, END TI											
S. TEST; RIG SUPERVIS	MISCELLA	NEOUS INF	wa	ell was drilled as monitored fi e well at this ti	or the prese	ence of w	vater 48-h	ours af	fter dr	illing was	s comple	as a tempete; water	oorary w was not	ell. The well encountered in
TES	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THA	AT PROVID	ED ONS	TE SUPER	RVISIO	N OF	WELL CO	NSTRU	CTION O	THER T	IAN LICENSEE:
ı,	Kalvin (Kell	y) Padilla												
SIGNATURE .	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.													
6. SIGN	_//	N/E/ SIGNAT	Whe of Drille	R / PRINT SI	Mark	Mumby	′			_	4/2	3/ <i>Ain</i>	OATE	
F∩	R OSE INTERI	NAL USE								WR-20 W	ELL RE	CORD & 1	LOG (V=	rsion 04/30/2019)
	E NO.	- 441	7		PC	OD NO.	- 1			TRN NO.			544 544	010H 01100(2017)
LO	CATION	33	4 7	225 /	2281	<u>_</u> (Dec 36	, w	ELL T	TAG ID N	D.	NA		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,

Andrew Dennis (575)622-6521

drywell



	PHOTOGRAPHIC LOG	
Devon Energy	Longview Federal 13 #001H	TE034821006
Corporation	Eddy County, NM	

Photo No. Date

1 March 16, 2021

View of initial release on pad facing southeast



Photo No.	Date			
2	March 16, 2021			
Flow path of initial release onto				

lease road facing southeast





	PHOTOGRAPHIC LOG	
Devon Energy	Longview Federal 13 #001H	TE034821006
Corporation	Eddy County, NM	

 Photo No.
 Date

 3
 March 25, 2020

While excavating via trackhoe facing northwest.



Photo No. Date

4 March 25, 2021

Final on pad excavation facing south-southwest.





	PHOTOGRAPHIC LOG	
Devon Energy	Longview Federal 13 #001H	TE034821006
Corporation	Eddy County, NM	

 Photo No.
 Date

 5
 March 29, 2021

Final excavation facing northnorthwest.



Photo No.	Date			
6	March 29, 2021			
Final lease road excavation facing				

Final lease road excavation facing west.





	PHOTOGRAPHIC LOG	
Devon Energy	Longview Federal 13 #001H	TE034821006
Corporation	Eddy County, NM	

 Photo No.
 Date

 7
 March 30, 2021

View of drainage feature within pasture facing north.



From: Arias, Arthur A < <u>aaarias@blm.gov</u>> Sent: Thursday, April 1, 2021 10:48 AM

To: Raley, Jim <James.Raley@wpxenergy.com>

Subject: Re: [EXTERNAL] Longview 31-1 Sundry Request

Jim, I looked at this location where this spill occurred, I agree with you on doing NO mechanical work on this small area the impact is so small more damage will be done putting equipment in there. The spill stayed within the drainage which is a rocky bottom most of it. I did not see a large even a small area of salt stains. It looks like the pad area and the road on it the southside have been work on and areas where already dug up and place in an area to be removed from location. I recommend full clean up on road and pad and leave the drainage alone.....

From: Raley, Jim < <u>James.Raley@wpxenergy.com</u>>

Sent: Friday, March 19, 2021 2:14 PM **To:** Arias, Arthur A <aaarias@blm.gov>

Subject: [EXTERNAL] Longview 31-1 Sundry Request

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Arthur,

On 3/16/2021 WPX Energy had a 12 bbl release of produced water at the Longview 31-1. Most of the produced water stayed on location, but a relatively small amount did make it off the pad and ran into the pasture. This was a reportable spill and has been reported to NMOCD.

WPX seeks permission to go off-site and cleanup impacted soils to comply with NMOCD cleanup standards. We plan on using mechanized equipment and will stay within a 50 ft buffer of the spill area as indicated on the attached map and sundry request. After successful completion of cleanup efforts WPX Energy will replace any removed soils, reseed area and place appropriate stormwater structures to prevent erosion.

Attached:

- Sundry Request
- Map of Spill Area including 50 ft buffer
- Shapefile of spill area and buffer area

Well Info:

- 30-015-42049
- Longview Federal 31 #001H
- 32.341192, -104.027534

Jim Raley | Environmental Specialist - Permian Basin

5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | james.raley@wpxenergy.com





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-443-1

Laboratory Sample Delivery Group: Eddy County NM

Client Project/Site: Longview 31-1

For:

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

Attn: Joseph Hernandez

MAMER

Authorized for release by: 4/12/2021 5:57:29 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/1/2021 10:15:26 AM

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

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

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11

13

14

Client: WSP USA Inc.

Project/Site: Longview 31-1

Laboratory Job ID: 890-443-1

SDG: Eddy County NM

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Qualifiers

GC	VOA
Qual	ifier

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

CFU

CNF

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

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)

Colony Forming Unit

Contains No Free Liquid

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL

Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-443-1

SDG: Eddy County NM

Job ID: 890-443-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-443-1

Receipt

The samples were received on 3/26/2021 4:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-443-1), FS02 (890-443-2), FS03 (890-443-3), FS04 (890-443-4), FS05 (890-443-5), FS06 (890-443-6), FS07 (890-443-7), FS08 (890-443-8), FS09 (890-443-9), FS10 (890-443-10), FS11 (890-443-11), FS12 (890-443-12), FS13 (890-443-13), FS14 (890-443-14), FS15 (890-443-15), FS16 (890-443-16), FS17 (890-443-17), FS18 (890-443-18), FS19 (890-443-19), FS20 (890-443-20) and FS21 (890-443-21).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-1443 and analytical batch 880-1444 were outside control limits: (890-443-A-21-C MS) and (890-443-A-21-D MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: FS13 (890-443-13), FS14 (890-443-14) and FS16 (890-443-16). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS14 (890-443-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Job ID: 890-443-1

Client: WSP USA Inc. Project/Site: Longview 31-1

SDG: Eddy County NM

Lab Sample ID: 890-443-1 **Client Sample ID: FS01** Date Collected: 03/25/21 15:35

Matrix: Solid

Date Received: 03/26/21 16:47 Sample Depth: 1 - 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
Total BTEX	<0.00200	U *1	0.00200		mg/Kg		04/07/21 11:05	04/07/21 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/07/21 11:05	04/07/21 19:12	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/07/21 11:05	04/07/21 19:12	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		04/06/21 16:11	04/07/21 11:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		04/06/21 16:11	04/07/21 11:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/06/21 16:11	04/07/21 11:43	1
Total TPH	<49.9	U F1	49.9		mg/Kg		04/06/21 16:11	04/07/21 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				04/06/21 16:11	04/07/21 11:43	1
o-Terphenyl	118		70 - 130				04/06/21 16:11	04/07/21 11:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qu	alifier R	L MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	545	5.0	3	mg/Kg			04/08/21 17:48	1	

Client Sample ID: FS02 Date Collected: 03/25/21 15:45

Matrix: Solid

Lab Sample ID: 890-443-2

Date Received: 03/26/21 16:47 Sample Depth: 2 - 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/07/21 12:13	04/07/21 16:34	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/07/21 12:13	04/07/21 16:34	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS02

Lab Sample ID: 890-443-2 Date Collected: 03/25/21 15:45 Matrix: Solid Date Received: 03/26/21 16:47

Sample Depth: 2 - 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 21:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 21:24	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 21:24	1
Total TPH	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/07/21 15:02	04/07/21 21:24	1
o-Terphenyl	116		70 - 130				04/07/21 15:02	04/07/21 21:24	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		4.99		mg/Kg			04/08/21 18:04	

Client Sample ID: FS03 Lab Sample ID: 890-443-3 Matrix: Solid

Date Collected: 03/25/21 12:48 Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/07/21 12:13	04/07/21 16:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/07/21 12:13	04/07/21 16:54	1
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/07/21 15:02	Analyzed 04/07/21 22:28	Dil Fac
Analyte	Result	Qualifier		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02	04/07/21 22:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/07/21 22:28 04/07/21 22:28 04/07/21 22:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	MDL	mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02	04/07/21 22:28	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/07/21 22:28 04/07/21 22:28 04/07/21 22:28	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 04/07/21 22:28	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared	04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 Analyzed	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared 04/07/21 15:02	04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 Analyzed 04/07/21 22:28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared 04/07/21 15:02	04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 04/07/21 22:28 Analyzed 04/07/21 22:28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Matrix: Solid

Lab Sample ID: 890-443-4

Client: WSP USA Inc.

Job ID: 890-443-1

Project/Site: Longview 31-1

SDG: Eddy County NM

Client Sample ID: FS04

Date Collected: 03/25/21 12:50 Date Received: 03/26/21 16:47

Sample Depth: - 1

Method: 8021B - Volatile Orga	anic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				04/07/21 12:13	04/07/21 17:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/07/21 12:13	04/07/21 17:15	1
- Method: 8015B NM - Diesel R	tange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/21 15:02	04/07/21 22:49	1

1 Chloropotono	100		70 130		04/07/04 45:00	04/07/24 22:40	- 1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg	04/07/21 15:02	04/07/21 22:49	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	04/07/21 15:02	04/07/21 22:49	1
C10-C28)							
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	04/07/21 15:02	04/07/21 22:49	1

- Carrogato	,	~~~~			,y=0 u	
1-Chlorooctane	100		70 - 130	04/07/21 15:0.	2 04/07/21 22:49	1
o-Terphenyl	111		70 - 130	04/07/21 15:0	2 04/07/21 22:49	1
Method: 300.0 - Anions, Ion Chrom	natography -	Soluble				

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac
Chloride 204 4.97 mg/Kg 04/08/21 18:15 1

Date Collected: 03/25/21 12:56 Date Received: 03/26/21 16:47

Client Sample ID: FS05

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/07/21 12:13	04/07/21 17:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/07/21 12:13	04/07/21 17:35	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-443-5

Matrix: Solid

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urofina Vanaa Carlahad

Lab Sample ID: 890-443-5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS05

Date Collected: 03/25/21 12:56 Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 23:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 23:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 23:11	1
Total TPH	<49.9	U	49.9		mg/Kg		04/07/21 15:02	04/07/21 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/07/21 15:02	04/07/21 23:11	1
o-Terphenyl	108		70 - 130				04/07/21 15:02	04/07/21 23:11	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	128		25.0		mg/Kg			04/08/21 18:21	- 5

Client Sample ID: FS06 Lab Sample ID: 890-443-6 Date Collected: 03/25/21 13:00 Matrix: Solid

Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				04/07/21 12:13	04/07/21 17:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/07/21 12:13	04/07/21 17:56	1
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Mathadi 2045D NM - Diagal Dans	na Ormaniaa (D)	BO) (CC)							
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/07/21 15:02	Analyzed 04/07/21 23:33	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	04/07/21 15:02	04/07/21 23:33	1
Analyte Gasoline Range Organics	Result	Qualifier U		MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	04/07/21 15:02	04/07/21 23:33	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02	04/07/21 23:33 04/07/21 23:33	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/07/21 23:33 04/07/21 23:33 04/07/21 23:33	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 04/07/21 23:33	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared	04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared 04/07/21 15:02	04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 Analyzed 04/07/21 23:33	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared 04/07/21 15:02	04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 04/07/21 23:33 Analyzed 04/07/21 23:33	Dil Fac Dil Fac Dil Fac Dil Fac

Lab Sample ID: 890-443-7

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-443-1

Project/Site: Longview 31-1

SDG: Eddy County NM

Client Sample ID: FS07

Date Collected: 03/25/21 13:05 Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 18:16	1
Surrogato	%Pecovery	Qualifier	l imite				Propared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	_	04/07/21 12:13	04/07/21 18:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130		04/07/21 12:13	04/07/21 18:16	1

Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 23:53	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 23:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 23:53	1
Total TPH	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/07/21 15:02	04/07/21 23:53	1
o-Terphenyl	110		70 - 130	04/07/21 15:02	04/07/21 23:53	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
Chlorido	97.2	4 98	ma/Ka			04/08/21 18:43	

Client Sample ID: FS08

Date Collected: 03/25/21 13:10

Lab Sample ID: 890-443-8

Matrix: Solid

Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/07/21 12:13	04/07/21 18:37	1
1,4-Difluorobenzene (Surr)	98		70 ₋ 130				04/07/21 12:13	04/07/21 18:37	1

Lab Sample ID: 890-443-8

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-443-1

Project/Site: Longview 31-1

SDG: Eddy County NM

Client Sample ID: FS08

Date Collected: 03/25/21 13:10 Date Received: 03/26/21 16:47

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/08/21 00:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/08/21 00:15	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/08/21 00:15	1
Total TPH	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/08/21 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/07/21 15:02	04/08/21 00:15	1
o-Terphenyl	110		70 - 130				04/07/21 15:02	04/08/21 00:15	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		4.50		mg/Kg			04/08/21 18:48	1

Client Sample ID: FS09

Lab Sample ID: 890-443-9

Date Collected: 03/25/21 13:12

Matrix: Solid

Date Collected: 03/25/21 13:12 Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/08/21 10:10	04/08/21 17:04	
1,4-Difluorobenzene (Surr)	96		70 - 130				04/08/21 10:10	04/08/21 17:04	:
•									
	•		DI	MDI	11-14	ь.	Duamanad	Amahamad	Dil Fa
Analyte	Result	Qualifier	RL 10.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/07/21 15:02	Analyzed 04/08/21 00:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U	49.8	MDL	mg/Kg	<u>D</u>	04/07/21 15:02	04/08/21 00:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U	49.8	MDL	mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02	04/08/21 00:36 04/08/21 00:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/08/21 00:36 04/08/21 00:36 04/08/21 00:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 04/08/21 00:36	·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared	04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 %Recovery 97 106	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared 04/07/21 15:02	04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 Analyzed 04/08/21 00:36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 Prepared 04/07/21 15:02	04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 04/08/21 00:36 Analyzed 04/08/21 00:36	Dil Fac

Eurofins Xenco, Carlsbad

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2

4

7

9

11

13

14

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS10

Date Collected: 03/25/21 13:15 Date Received: 03/26/21 16:47

Sample Depth: - 1

390-443-10

Matrix: Solid

5

Dil Fac

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				04/08/21 10:10	04/08/21 17:30	1
4-Bromofluorobenzene (Surr)	124		70 - 750				0 0 0 0		
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	124		70 - 130				04/08/21 10:10	04/08/21 17:30	1
,	101 ge Organics (D	RO) (GC) Qualifier		MDL	Unit	D			
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	101 ge Organics (D	Qualifier	70 - 130	MDL	Unit mg/Kg	<u>D</u>	04/08/21 10:10	04/08/21 17:30	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI	Qualifier U	70 - 130 RL	MDL		<u>D</u>	04/08/21 10:10 Prepared	04/08/21 17:30 Analyzed	
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <49.8	Qualifier U	70 - 130 RL 49.8	MDL	mg/Kg	<u> </u>	04/08/21 10:10 Prepared 04/07/21 15:02	04/08/21 17:30 Analyzed 04/08/21 00:57	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	701 ge Organics (Di Result <49.8 <49.8	Qualifier U U	70 - 130 RL 49.8	MDL	mg/Kg	<u>D</u>	04/08/21 10:10 Prepared 04/07/21 15:02 04/07/21 15:02	Analyzed 04/08/21 00:57 04/08/21 00:57	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	701 ge Organics (Di Result <49.8 <49.8 <49.8	Qualifier U U U U	70 - 130 RL 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	04/08/21 10:10 Prepared 04/07/21 15:02 04/07/21 15:02	Analyzed 04/08/21 00:57 04/08/21 00:57 04/08/21 00:57	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	701 ge Organics (Di Result <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	70 - 130 RL 49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 10:10 Prepared 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02 04/07/21 15:02	Analyzed 04/08/21 00:57 04/08/21 00:57 04/08/21 00:57 04/08/21 00:57	Dil Fac 1 1 1

Client Sample ID: FS11 Lab Sample ID: 890-443-11 Date Collected: 03/25/21 13:20

RL

25.0

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/08/21 18:59

Result Qualifier

245

Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/08/21 10:10	04/08/21 17:55	1
1,4-Difluorobenzene (Surr)	100		70 ₋ 130				04/08/21 10:10	04/08/21 17:55	1

Lab Sample ID: 890-443-11

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS11

Date Collected: 03/25/21 13:20 Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/06/21 16:11	04/07/21 16:19	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/06/21 16:11	04/07/21 16:19	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/06/21 16:11	04/07/21 16:19	1
Total TPH	<49.9	U	49.9		mg/Kg		04/06/21 16:11	04/07/21 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/06/21 16:11	04/07/21 16:19	1
o-Terphenyl	112		70 - 130				04/06/21 16:11	04/07/21 16:19	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174	E4	25.0		mg/Kg			04/08/21 19:05	5

Lab Sample ID: 890-443-12 **Client Sample ID: FS12** Date Collected: 03/25/21 13:22 Matrix: Solid

Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/08/21 10:10	04/08/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				04/08/21 10:10	04/08/21 18:20	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/08/21 10:10	04/08/21 18:20	1
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)							
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/06/21 16:11	Analyzed 04/07/21 16:40	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 16:40	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 16:40 04/07/21 16:40	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 16:40 04/07/21 16:40 04/07/21 16:40	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U	50.0	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 16:40 04/07/21 16:40	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 16:40 04/07/21 16:40 04/07/21 16:40	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 04/07/21 16:40	1 1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared	04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 Analyzed	1 1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 Analyzed 04/07/21 16:40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 04/07/21 16:40 Analyzed 04/07/21 16:40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Job ID: 890-443-1 SDG: Eddy County NM

Client: WSP USA Inc. Project/Site: Longview 31-1

Lab Sample ID: 890-443-13

04/07/21 17:01

04/07/21 17:01

04/06/21 16:11

04/06/21 16:11

Matrix: Solid

Client Sample ID: FS13 Date Collected: 03/25/21 13:27

Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				04/07/21 12:13	04/07/21 21:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/07/21 12:13	04/07/21 21:49	1
- Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 17:01	1

Total TPH	<50.0	U	50.0	mg/Kg	04/06/21 16:11	04/07/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130		04/06/21 16:11	04/07/21 17:01	1
o-Terphenvl	115		70 - 130		04/06/21 16:11	04/07/21 17:01	1

50.0

50.0

mg/Kg

mg/Kg

<50.0 U

<50.0 U

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213	25.1	mg/Kg			04/08/21 19:27	5

Client Sample ID: FS14 Lab Sample ID: 890-443-14 **Matrix: Solid**

Date Collected: 03/25/21 14:26 Date Received: 03/26/21 16:47

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

C10-C28)

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 22:09	
Toluene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 22:09	•
Ethylbenzene	0.00333		0.00199		mg/Kg		04/07/21 12:13	04/07/21 22:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/07/21 12:13	04/07/21 22:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/07/21 12:13	04/07/21 22:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/07/21 12:13	04/07/21 22:09	1
Total BTEX	0.00333		0.00199		mg/Kg		04/07/21 12:13	04/07/21 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				04/07/21 12:13	04/07/21 22:09	
1,4-Difluorobenzene (Surr)	93		70 ₋ 130				04/07/21 12:13	04/07/21 22:09	1

Lab Sample ID: 890-443-14

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS14

Date Collected: 03/25/21 14:26 Date Received: 03/26/21 16:47

Sample Depth: - 1

– Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 17:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 17:22	1
Total TPH	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/06/21 16:11	04/07/21 17:22	1
o-Terphenyl	117		70 - 130				04/06/21 16:11	04/07/21 17:22	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		5.02		mg/Kg			04/08/21 19:44	1

Lab Sample ID: 890-443-15 **Client Sample ID: FS15** Date Collected: 03/25/21 14:28 Matrix: Solid

Date Received: 03/26/21 16:47

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				04/07/21 12:13	04/07/21 22:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/07/21 12:13	04/07/21 22:29	1
Method: 8015B NM - Diesel Rang			DI	MDI	Unit	n	Propared	Analyzod	Dil Fac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared 04/06/24 46:44	Analyzed	
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/06/21 16:11	Analyzed 04/07/21 17:43	
Analyte	Result	Qualifier U		MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 17:43	1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 17:43	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	MDL	mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11	04/07/21 17:43 04/07/21 17:43	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 17:43 04/07/21 17:43 04/07/21 17:43	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 04/07/21 17:43	1 1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared	04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <40.9 <40.9 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 Analyzed 04/07/21 17:43	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	D	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 04/07/21 17:43 Analyzed 04/07/21 17:43	Dil Fac

Lab Sample ID: 890-443-16

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS16

Date Collected: 03/25/21 14:30 Date Received: 03/26/21 16:47

Method: 8021B - Volatile Or	ganic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/07/21 12:13	04/07/21 22:50	1

Benzene	<0.00196 U	0.00196	mg/kg	04/07/21 12.13	04/07/21 22.50	- 1
Toluene	<0.00198 U	0.00198	mg/Kg	04/07/21 12:13	04/07/21 22:50	1
Ethylbenzene	<0.00198 U	0.00198	mg/Kg	04/07/21 12:13	04/07/21 22:50	1
m-Xylene & p-Xylene	<0.00396 U	0.00396	mg/Kg	04/07/21 12:13	04/07/21 22:50	1
o-Xylene	<0.00198 U	0.00198	mg/Kg	04/07/21 12:13	04/07/21 22:50	1
Xylenes, Total	<0.00396 U	0.00396	mg/Kg	04/07/21 12:13	04/07/21 22:50	1
Total BTEX	<0.00198 U	0.00198	mg/Kg	04/07/21 12:13	04/07/21 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/07/21 12:13	04/07/21 22:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/07/21 12:13	04/07/21 22:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D		
Gasoline Range Organics	<50.1	U	50.1		mg/Kg			
(CBO) C6 C10								

100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:11	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:11	1
Total TPH	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/06/21 16:11	04/07/21 18:11	1
o-Terphenyl	111		70 - 130	04/06/21 16:11	04/07/21 18:11	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		5.04		mg/Kg			04/08/21 19:55	1

Client Sample ID: FS17 Lab Sample ID: 890-443-17 **Matrix: Solid**

Date Collected: 03/25/21 14:35 Date Received: 03/26/21 16:47

Sample Depth: - 1

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/07/21 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/07/21 12:13	04/07/21 23:10	1

70 - 130

Lab Sample ID: 890-443-17

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS17

Date Collected: 03/25/21 14:35 Date Received: 03/26/21 16:47

Sample Depth: - 1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:33	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:33	1
Total TPH	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/06/21 16:11	04/07/21 18:33	1
o-Terphenyl	116		70 - 130				04/06/21 16:11	04/07/21 18:33	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.5		4.97		mg/Kg			04/08/21 20:00	1

Client Sample ID: FS18 Lab Sample ID: 890-443-18 Matrix: Solid

Date Collected: 03/26/21 13:10 Date Received: 03/26/21 16:47

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: 1 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/07/21 12:13	04/07/21 23:31	1
1,4-Difluorobenzene (Surr)	102		70 - 130				04/07/21 12:13	04/07/21 23:31	1
Method: 8015B NM - Diesel Rang	• • •	, , ,				_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 18:54	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 18:54	1
C10-C28)									
Oll Denne Onneries (Over 000 000)									
Oll Range Organics (Over C28-C36)	<50.0		50.0		mg/Kg		04/06/21 16:11	04/07/21 18:54	1
Total TPH	<50.0 <50.0		50.0 50.0		mg/Kg mg/Kg		04/06/21 16:11 04/06/21 16:11	04/07/21 18:54 04/07/21 18:54	1
		U							
Total TPH	<50.0	U	50.0				04/06/21 16:11	04/07/21 18:54	Dil Fac
Total TPH Surrogate	<50.0	U	50.0				04/06/21 16:11 Prepared	04/07/21 18:54 Analyzed	Dil Fac
Total TPH Surrogate 1-Chlorooctane	<50.0 %Recovery 99 111	U Qualifier	50.0 Limits 70 - 130				04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 18:54 Analyzed 04/07/21 18:54	1 1 Dil Fac 1
Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 99 111 Domatography -	U Qualifier	50.0 Limits 70 - 130	MDL			04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 18:54 Analyzed 04/07/21 18:54	Dil Fac

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample Results

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS19

Lab Sample ID: 890-443-19 Date Collected: 03/25/21 14:55

Matrix: Solid Date Received: 03/26/21 16:47

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/07/21 12:13	04/07/21 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				04/07/21 12:13	04/07/21 23:51	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/07/21 12:13	04/07/21 23:51	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Gasoline Range Organics	Result < 50.0		RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/06/21 16:11	Analyzed 04/07/21 19:16	Dil Fac
Gasoline Range Organics		U		MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 19:16	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	04/06/21 16:11	04/07/21 19:16	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0	u u	50.0	MDL	mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11	04/07/21 19:16 04/07/21 19:16	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U U U	50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 19:16 04/07/21 19:16 04/07/21 19:16	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	<50.0 <50.0 <50.0 <50.0	U U U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11	04/07/21 19:16 04/07/21 19:16 04/07/21 19:16 04/07/21 19:16	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	<50.0 <50.0 <50.0 <50.0	U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared	04/07/21 19:16 04/07/21 19:16 04/07/21 19:16 04/07/21 19:16 Analyzed	1 1 1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 <50.0 %Recovery 99 110	U U U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 04/06/21 16:11 Prepared 04/06/21 16:11	04/07/21 19:16 04/07/21 19:16 04/07/21 19:16 04/07/21 19:16 Analyzed 04/07/21 19:16	1 1 1 1 1 1 1 Dil Fac
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	<50.0 <50.0 <50.0 <50.0 <50.0 $ $								

Client Sample ID: FS20 Lab Sample ID: 890-443-20 Date Collected: 03/25/21 14:57 **Matrix: Solid**

Date Received: 03/26/21 16:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/07/21 12:13	04/08/21 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/07/21 12:13	04/08/21 00:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/07/21 12:13	04/08/21 00:11	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 19:37	1

Job ID: 890-443-1

Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: FS20 Lab Sample ID: 890-443-20 Date Collected: 03/25/21 14:57

Matrix: Solid

Date Received: 03/26/21 16:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 19:37	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 19:37	1
Total TPH	<50.1	U	50.1		mg/Kg		04/06/21 16:11	04/07/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/06/21 16:11	04/07/21 19:37	1
o-Terphenyl	108		70 - 130				04/06/21 16:11	04/07/21 19:37	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.99		mg/Kg			04/08/21 20:11	

Client Sample ID: FS21 Lab Sample ID: 890-443-21

Date Collected: 03/25/21 15:00 Matrix: Solid

Date Received: 03/26/21 16:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
Total BTEX	<0.00200	U F2	0.00200		mg/Kg		04/07/21 12:13	04/07/21 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/07/21 12:13	04/07/21 16:14	1

Result Qualifier

94.1

1,4-Difluorobenzene (Surr)	95		70 - 130				04/07/21 12:13	04/07/21 16:14	1
– Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	56.5		49.9		mg/Kg		04/06/21 13:35	04/07/21 03:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/06/21 13:35	04/07/21 03:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/06/21 13:35	04/07/21 03:30	1
Total TPH	56.5		49.9		mg/Kg		04/06/21 13:35	04/07/21 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/06/21 13:35	04/07/21 03:30	1
o-Terphenyl	79		70 ₋ 130				04/06/21 13:35	04/07/21 03:30	1

RL

4.96

MDL Unit

mg/Kg

Eurofins Xenco, Carlsbad

Analyzed

04/11/21 20:22

Prepared

Dil Fac

Analyte

Chloride

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-443-1	FS01	116	104	
890-443-1 MS	FS01	129	108	
890-443-1 MSD	FS01	123	111	
890-443-2	FS02	115	103	
890-443-3	FS03	115	102	
890-443-4	FS04	120	101	
890-443-5	FS05	116	100	
890-443-6	FS06	117	99	
890-443-7	FS07	118	101	
890-443-8	FS08	113	98	
890-443-9	FS09	113	96	
890-443-10	FS10	124	101	
890-443-11	FS11	116	100	
890-443-12	FS12	125	104	
890-443-13	FS13	122	92	
890-443-14	FS14	148 S1+	93	
890-443-15	FS15	118	100	
890-443-16	FS16	116	95	
890-443-17	FS17	110	100	
890-443-18	FS18	115	102	
890-443-19	FS19	112	101	
890-443-20	FS20	115	98	
890-443-21	FS21	115	95	
890-443-21 MS	FS21	100	79	
890-443-21 MSD	FS21	106	101	
LCS 880-1434/1-A	Lab Control Sample	113	107	
LCS 880-1443/1-A	Lab Control Sample	103	100	
LCS 880-1506/1-A	Lab Control Sample	101	96	
LCSD 880-1434/2-A	Lab Control Sample Dup	95	100	
LCSD 880-1443/2-A	Lab Control Sample Dup	103	101	
LCSD 880-1506/2-A	Lab Control Sample Dup	110	112	
MB 880-1434/5-A	Method Blank	101	101	
MB 880-1443/5-A	Method Blank	109	99	
MB 880-1506/5-A	Method Blank	75	83	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-443-1	FS01	105	118
890-443-1 MS	FS01	108	107
890-443-1 MSD	FS01	109	105
890-443-2	FS02	102	116
890-443-2 MS	FS02	108	109

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-443-1

Project/Site: Longview 31-1

SDG: Eddy County NM

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

Matrix: Solid Prep Type: Total/NA

				Perc
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-443-2 MSD	FS02	104	101	
890-443-3	FS03	97	104	
890-443-4	FS04	100	111	
890-443-5	FS05	97	108	
890-443-6	FS06	99	110	
890-443-7	FS07	100	110	
890-443-8	FS08	100	110	
890-443-9	FS09	97	106	
890-443-10	FS10	103	113	
890-443-11	FS11	101	112	
890-443-12	FS12	98	106	
890-443-13	FS13	104	115	
890-443-14	FS14	109	117	
890-443-15	FS15	100	108	
890-443-16	FS16	100	111	
890-443-17	FS17	102	116	
890-443-18	FS18	99	111	
890-443-19	FS19	99	110	
890-443-20	FS20	99	108	
890-443-21	FS21	85	79	
LCS 880-1378/2-A	Lab Control Sample	105	91	
LCS 880-1401/2-A	Lab Control Sample	110	110	
LCS 880-1471/2-A	Lab Control Sample	111	117	
LCSD 880-1378/3-A	Lab Control Sample Dup	104	91	
LCSD 880-1401/3-A	Lab Control Sample Dup	113	121	
LCSD 880-1471/3-A	Lab Control Sample Dup	119	119	
MB 880-1378/1-A	Method Blank	104	100	
MB 880-1401/1-A	Method Blank	117	131 S1+	
WID 000-140 I/ I-A	Method Blank	113	129	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1434/5-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1434

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 11:05	04/07/21 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 11:05	04/07/21 18:50	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/07/21 11:0	04/07/21 18:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/07/21 11:0	04/07/21 18:50	1

Lab Sample ID: LCS 880-1434/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 1437

Prep Type: Total/NA Prep Batch: 1434

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1167 mg/Kg 117 70 - 130 0.100 0.1086 Toluene mg/Kg 109 70 - 130 0.100 0.1119 mg/Kg 70 - 130 Ethylbenzene 112 0.200 0.2255 113 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene 0.100 0.1195 mg/Kg 119 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-1434/2-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1434

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08693		mg/Kg		87	70 - 130	29	35	
Toluene	0.100	0.08347		mg/Kg		83	70 - 130	26	35	
Ethylbenzene	0.100	0.08614		mg/Kg		86	70 - 130	26	35	
m-Xylene & p-Xylene	0.200	0.1683		mg/Kg		84	70 - 130	29	35	
o-Xylene	0.100	0.08392		mg/Kg		84	70 - 130	35	35	

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1.4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-443-1 MS

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: FS01 Prep Type: Total/NA Prep Batch: 1434

MS MS Sample Sample Spike %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Benzene <0.00200 U 0.0998 0.1187 mg/Kg 119 70 - 130

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1

Job ID: 890-443-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: 890-443-1 MS

Analysis Batch: 1437

Matrix: Solid

Client Sample ID: FS01 Prep Type: Total/NA Prep Batch: 1434

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.0998	0.09649		mg/Kg		96	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.08426		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1729		mg/Kg		87	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.09887		mg/Kg		99	70 - 130	

MS MS %Recovery Qualifier Limits 70 - 130 129 108 70 - 130

Lab Sample ID: 890-443-1 MSD

Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client Sample ID: FS01 **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 1437** Prep Batch: 1434

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.1229		mg/Kg		123	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.09541		mg/Kg		95	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0996	0.07983		mg/Kg		80	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1610		mg/Kg		81	70 - 130	7	35
o-Xylene	<0.00200	U	0.0996	0.09306		mg/Kg		93	70 - 130	6	35

MSD MSD Qualifier Surrogate %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 123 1,4-Difluorobenzene (Surr) 111 70 - 130

Lab Sample ID: MB 880-1443/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 1444** Prep Batch: 1443

	INID	INID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 15:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 15:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 15:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 12:13	04/07/21 15:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 15:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 12:13	04/07/21 15:45	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 12:13	04/07/21 15:45	1

	MB	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	_	04/07/21 12:13	04/07/21 15:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130		04/07/21 12:13	04/07/21 15:45	1

Lab Sample ID: LCS 880-1443/1-A

Toluene

Matrix: Solid								Prep	Type: Total/NA
Analysis Batch: 1444								Pro	ep Batch: 1443
		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		0.100	0.08280		mg/Kg		83	70 - 130	

0.09258

mg/Kg

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Client Sample ID: Lab Control Sample

70 - 130

93

0.100

4/12/2021

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: LCS 880-1443/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 1444 Prep Batch: 1443

ı		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ethylbenzene	0.100	0.1028		mg/Kg		103	70 - 130	
	m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	
	o-Xylene	0.100	0.1045		mg/Kg		104	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-1443/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Prep Batch: 1443

Analysis Batch: 1444

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07721		mg/Kg		77	70 - 130	7	35
Toluene	0.100	0.08577		mg/Kg		86	70 - 130	8	35
Ethylbenzene	0.100	0.09491		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1911		mg/Kg		96	70 - 130	8	35
o-Xylene	0.100	0.09715		mg/Kg		97	70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-443-21 MS **Client Sample ID: FS21 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 1444 Prep Batch: 1443

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.0998	0.04867	F1	mg/Kg		49	70 - 130	
Toluene	<0.00200	U F2 F1	0.0998	0.06183	F1	mg/Kg		62	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.08422		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1594		mg/Kg		80	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.07350		mg/Kg		74	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-443-21 MSD **Client Sample ID: FS21** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 1444 Prep Batch: 1443

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.0996	0.08374	F2	mg/Kg		84	70 - 130	53	35
Toluene	<0.00200	U F2 F1	0.0996	0.08904	F2	mg/Kg		89	70 - 130	36	35
Ethylbenzene	<0.00200	U	0.0996	0.09341		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1918		mg/Kg		96	70 - 130	18	35
o-Xylene	<0.00200	U	0.0996	0.09425		mg/Kg		95	70 - 130	25	35

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-1506/5-A

Matrix: Solid

Analysis Batch: 1508

Client Sample ID: Method Blank

Analyzed

04/08/21 16:14

04/08/21 16:14

04/08/21 16:14 04/08/21 16:14

04/08/21 16:14

04/08/21 16:14

04/08/21 16:14

Prep Type: Total/NA

Dil Fac

Prep Batch: 1506

Analyte Result Qualifier MDL Unit Benzene <0.00200 U 0.00200 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg

MB MB

Xylenes, Total Total BTEX

o-Xylene

мв мв

<0.00200 U

<0.00399 U

<0.00200 U

Surrogate %Recovery Qualifier Limits 75 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 83 70 - 130

Prepared Dil Fac Analyzed 04/08/21 10:10 04/08/21 16:14 04/08/21 10:10 04/08/21 16:14

Prepared

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

04/08/21 10:10

Lab Sample ID: LCS 880-1506/1-A

Matrix: Solid

Analysis Batch: 1508

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

Prep Batch: 1506

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.1038 104 70 - 130 mg/Kg Toluene 0.100 0.1129 mg/Kg 113 70 - 130Ethylbenzene 0.100 0.1056 mg/Kg 106 70 - 130 0.200 0.2152 70 - 130 m-Xylene & p-Xylene mg/Kg 108 o-Xylene 0.100 0.1146 mg/Kg 115 70 - 130

0.00200

0.00399

0.00200

mg/Kg

mg/Kg

mg/Kg

	LCS	LCS
е	%Recovery	Qualit

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-1506/2-A

Matrix: Solid

Analysis Batch: 1508

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

Prep Batch: 1506

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1103		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1052		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1110		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2278		mg/Kg		114	70 - 130	6	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	7	35

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: MB 880-1378/1-A

Matrix: Solid

Analysis Batch: 1362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1378

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1
Total TPH	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1

мв мв

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104	70 - 130	04/06/21 13:35	04/06/21 21:27	1
o-Terphenyl	100	70 - 130	04/06/21 13:35	04/06/21 21:27	1

Lab Sample ID: LCS 880-1378/2-A

Matrix: Solid

Analysis Batch: 1362

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

Prep Batch: 1378

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1146 115 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 940.9 mg/Kg 94 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	105		70 - 130		
o-Terphenyl	91		70 - 130		

Lab Sample ID: LCSD 880-1378/3-A

Matrix: Solid

Analysis Batch: 1362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1378

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limit Analyte Unit %Rec Limits **RPD** 70 - 130 1000 1181 20 Gasoline Range Organics 118 3 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 934.7 mg/Kg 93 70 - 13020

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: MB 880-1401/1-A

Matrix: Solid

Analysis Batch: 1417

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1401

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 10:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 10:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 10:39	1
Total TPH	<50.0	U	50.0		mg/Kg		04/06/21 16:11	04/07/21 10:39	1

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Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/06/21 16:11	04/07/21 10:39	1
o-Terphenyl	131	S1+	70 - 130	04/06/21 16:11	04/07/21 10:39	1

Lab Sample ID: LCS 880-1401/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Prep Batch: 1401 **Analysis Batch: 1417**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1126		mg/Kg		113	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1130		mg/Kg		113	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 110 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: LCSD 880-1401/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 1417 Prep Batch: 1401

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1169		mg/Kg		117	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1196		mg/Kg		120	70 - 130	6	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 113 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 121

Lab Sample ID: 890-443-1 MS **Client Sample ID: FS01** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 1417 Prep Batch: 1401

	Sample	Sample	Бріке	IVIS	M2				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	998	1323	F1	mg/Kg		133	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	998	1309		mg/Kg		129	70 - 130	
C10-C28)										

	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
1-Chlorooctane	108		70 - 130	
o-Terphenyl	107		70 - 130	

Lab Sample ID: 890-443-1 MSD **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 1417** Prep Batch: 1401 Sample Sample Spike MSD MSD %Rec. RPD

Result Qualifier Added Result Qualifier Unit %Rec Limits Limit <49.9 U F1 997 1341 F1 135 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: 890-443-1 MSD

Matrix: Solid Analysis Batch: 1417

Prep Batch: 1401 Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Diesel Range Organics (Over <49.9 U F1 997 1320 F1 131 70 - 130 20 mg/Kg

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: MB 880-1471/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 1417

Prep Type: Total/NA

Prep Batch: 1471

Client Sample ID: FS01

Prep Type: Total/NA

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 20:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 20:20	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 20:20	1
Total TPH	<50.0	U	50.0		mg/Kg		04/07/21 15:02	04/07/21 20:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	 04/07/21 15:02	04/07/21 20:20	1
o-Terphenyl	129		70 - 130	04/07/21 15:02	04/07/21 20:20	1

Lab Sample ID: LCS 880-1471/2-A

Matrix: Solid

Analysis Batch: 1417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1471

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1142		mg/Kg		114	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1176		mg/Kg		118	70 - 130	
C10-C28)								

C10-C28)

Surrogate

1-Chlorooctane

	LCS LCS	
Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	111	70 - 130
o-Terphenyl	117	70 - 130

Lab Sample ID: LCSD 880-1471/3-A

Matrix: Solid

Analysis Batch: 1417

Client	Sample	ID:	Lab	Contr	ol	Sample	Dup
				_	_	_	

Prep Type: Total/NA

Prep Batch: 1471

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 1000 Gasoline Range Organics 1227 mg/Kg 123 70 - 130 20 (GRO)-C6-C10 1000 1225 mg/Kg 123 70 - 130 Diesel Range Organics (Over 20

LCSD LCSD %Recovery Qualifier Limits 119

70 - 130

Job ID: 890-443-1

Client: WSP USA Inc. Project/Site: Longview 31-1

SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-1471/3-A

Matrix: Solid

Analysis Batch: 1417

Client Sample ID: Lab Control Sample Dup

120

70 - 130

Prep Type: Total/NA Prep Batch: 1471

LCSD LCSD

%Recovery Qualifier Surrogate Limits o-Terphenyl 119 70 - 130

Client Sample ID: FS02 Lab Sample ID: 890-443-2 MS Prep Type: Total/NA

Prep Batch: 1471

Matrix: Solid

Analysis Batch: 1417

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1222		mg/Kg		121	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	1262		mg/Kg		126	70 - 130	

C10-C28)

MS MS Qualifier Limits %Recovery Surrogate 70 - 130 1-Chlorooctane 108 109 70 - 130 o-Terphenyl

Client Sample ID: FS02 Lab Sample ID: 890-443-2 MSD Prep Type: Total/NA

Matrix: Solid

(GRO)-C6-C10

Diesel Range Organics (Over

Analysis Batch: 1417 Prep Batch: 1471 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Qualifier %Rec RPD Limit Analyte Result Unit Limits Gasoline Range Organics <49.9 998 1189 118 70 - 130 3 20 mg/Kg

1202

mg/Kg

998

C10-C28) MSD MSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 104 70 - 130 101 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1521/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1548

мв мв

<49.9 U

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 04/08/21 17:31 mg/Kg

Lab Sample ID: LCS 880-1521/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1548

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit %Rec Chloride 250 253.4 101 90 - 110 mg/Kg

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Job ID: 890-443-1 SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-1521/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Client: WSP USA Inc.

Project/Site: Longview 31-1

Analysis Batch: 1548

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Chloride 250 254.1 mg/Kg 102 90 - 110 20

Lab Sample ID: 890-443-1 MS Client Sample ID: FS01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1548

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 545 252 799.9 mg/Kg 101 90 - 110

Lab Sample ID: 890-443-1 MSD **Client Sample ID: FS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1548

MSD MSD %Rec. RPD Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 252 545 789.4 97 90 - 110 ma/Ka

Lab Sample ID: 890-443-11 MS Client Sample ID: FS11 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1548

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits Chloride 174 F1 250 1482 F1 523 90 - 110 mg/Kg

Lab Sample ID: 890-443-11 MSD Client Sample ID: FS11 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1548

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 174 F1 1452 F1 Chloride 250 mg/Kg 511 90 - 110

Lab Sample ID: MB 880-1542/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1625

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Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 5.00 mg/Kg 04/11/21 17:55

Lab Sample ID: LCS 880-1542/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1625

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 254.2 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-1542/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Released to Imaging: 9/1/2021 10:15:26 AM

Analysis Batch: 1625									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	245.1		ma/Ka		98	90 - 110	4	20

Client: WSP USA Inc.

Project/Site: Longview 31-1

SDG: Eddy County NM

GC VOA

Prep Batch: 1434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-1	FS01	Total/NA	Solid	5035	
MB 880-1434/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1434/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1434/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-443-1 MS	FS01	Total/NA	Solid	5035	
890-443-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 1437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-1	FS01	Total/NA	Solid	8021B	1434
MB 880-1434/5-A	Method Blank	Total/NA	Solid	8021B	1434
LCS 880-1434/1-A	Lab Control Sample	Total/NA	Solid	8021B	1434
LCSD 880-1434/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1434
890-443-1 MS	FS01	Total/NA	Solid	8021B	1434
890-443-1 MSD	FS01	Total/NA	Solid	8021B	1434

Prep Batch: 1443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-2	FS02	Total/NA	Solid	5035	_
890-443-3	FS03	Total/NA	Solid	5035	
890-443-4	FS04	Total/NA	Solid	5035	
890-443-5	FS05	Total/NA	Solid	5035	
890-443-6	FS06	Total/NA	Solid	5035	
890-443-7	FS07	Total/NA	Solid	5035	
890-443-8	FS08	Total/NA	Solid	5035	
890-443-13	FS13	Total/NA	Solid	5035	
890-443-14	FS14	Total/NA	Solid	5035	
890-443-15	FS15	Total/NA	Solid	5035	
890-443-16	FS16	Total/NA	Solid	5035	
890-443-17	FS17	Total/NA	Solid	5035	
890-443-18	FS18	Total/NA	Solid	5035	
890-443-19	FS19	Total/NA	Solid	5035	
890-443-20	FS20	Total/NA	Solid	5035	
890-443-21	FS21	Total/NA	Solid	5035	
MB 880-1443/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1443/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1443/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-443-21 MS	FS21	Total/NA	Solid	5035	
890-443-21 MSD	FS21	Total/NA	Solid	5035	

Analysis Batch: 1444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-2	FS02	Total/NA	Solid	8021B	1443
890-443-3	FS03	Total/NA	Solid	8021B	1443
890-443-4	FS04	Total/NA	Solid	8021B	1443
890-443-5	FS05	Total/NA	Solid	8021B	1443
890-443-6	FS06	Total/NA	Solid	8021B	1443
890-443-7	FS07	Total/NA	Solid	8021B	1443
890-443-8	FS08	Total/NA	Solid	8021B	1443
890-443-13	FS13	Total/NA	Solid	8021B	1443
890-443-14	FS14	Total/NA	Solid	8021B	1443

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Job ID: 890-443-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 1444 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-15	FS15	Total/NA	Solid	8021B	1443
890-443-16	FS16	Total/NA	Solid	8021B	1443
890-443-17	FS17	Total/NA	Solid	8021B	1443
890-443-18	FS18	Total/NA	Solid	8021B	1443
890-443-19	FS19	Total/NA	Solid	8021B	1443
890-443-20	FS20	Total/NA	Solid	8021B	1443
890-443-21	FS21	Total/NA	Solid	8021B	1443
MB 880-1443/5-A	Method Blank	Total/NA	Solid	8021B	1443
LCS 880-1443/1-A	Lab Control Sample	Total/NA	Solid	8021B	1443
LCSD 880-1443/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1443
890-443-21 MS	FS21	Total/NA	Solid	8021B	1443
890-443-21 MSD	FS21	Total/NA	Solid	8021B	1443

Prep Batch: 1506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-9	FS09	Total/NA	Solid	5035	
890-443-10	FS10	Total/NA	Solid	5035	
890-443-11	FS11	Total/NA	Solid	5035	
890-443-12	FS12	Total/NA	Solid	5035	
MB 880-1506/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-9	FS09	Total/NA	Solid	8021B	1506
890-443-10	FS10	Total/NA	Solid	8021B	1506
890-443-11	FS11	Total/NA	Solid	8021B	1506
890-443-12	FS12	Total/NA	Solid	8021B	1506
MB 880-1506/5-A	Method Blank	Total/NA	Solid	8021B	1506
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	8021B	1506
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1506

GC Semi VOA

Analysis Batch: 1362

Lab Sample ID 890-443-21	Client Sample ID FS21	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch
MB 880-1378/1-A	Method Blank	Total/NA	Solid	8015B NM	1378
LCS 880-1378/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1378
LCSD 880-1378/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1378

Prep Batch: 1378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-21	FS21	Total/NA	Solid	8015NM Prep	
MB 880-1378/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1378/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1378/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Client: WSP USA Inc.

Project/Site: Longview 31-1

SDG: Eddy County NM

GC Semi VOA

Prep Batch: 1401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-1	FS01	Total/NA	Solid	8015NM Prep	
890-443-11	FS11	Total/NA	Solid	8015NM Prep	
890-443-12	FS12	Total/NA	Solid	8015NM Prep	
890-443-13	FS13	Total/NA	Solid	8015NM Prep	
890-443-14	FS14	Total/NA	Solid	8015NM Prep	
890-443-15	FS15	Total/NA	Solid	8015NM Prep	
890-443-16	FS16	Total/NA	Solid	8015NM Prep	
890-443-17	FS17	Total/NA	Solid	8015NM Prep	
890-443-18	FS18	Total/NA	Solid	8015NM Prep	
890-443-19	FS19	Total/NA	Solid	8015NM Prep	
890-443-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-1401/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1401/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1401/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-443-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-443-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-443-1	FS01	Total/NA	Solid	8015B NM	140
890-443-2	FS02	Total/NA	Solid	8015B NM	147
890-443-3	FS03	Total/NA	Solid	8015B NM	147
890-443-4	FS04	Total/NA	Solid	8015B NM	147
890-443-5	FS05	Total/NA	Solid	8015B NM	147
890-443-6	FS06	Total/NA	Solid	8015B NM	147
890-443-7	FS07	Total/NA	Solid	8015B NM	147
890-443-8	FS08	Total/NA	Solid	8015B NM	147
890-443-9	FS09	Total/NA	Solid	8015B NM	147
890-443-10	FS10	Total/NA	Solid	8015B NM	147
890-443-11	FS11	Total/NA	Solid	8015B NM	140
890-443-12	FS12	Total/NA	Solid	8015B NM	140
890-443-13	FS13	Total/NA	Solid	8015B NM	140
890-443-14	FS14	Total/NA	Solid	8015B NM	140
890-443-15	FS15	Total/NA	Solid	8015B NM	140
890-443-16	FS16	Total/NA	Solid	8015B NM	140
890-443-17	FS17	Total/NA	Solid	8015B NM	140
890-443-18	FS18	Total/NA	Solid	8015B NM	140
890-443-19	FS19	Total/NA	Solid	8015B NM	140
890-443-20	FS20	Total/NA	Solid	8015B NM	140
MB 880-1401/1-A	Method Blank	Total/NA	Solid	8015B NM	140
MB 880-1471/1-A	Method Blank	Total/NA	Solid	8015B NM	147
LCS 880-1401/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	140
LCS 880-1471/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	147
LCSD 880-1401/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	140
LCSD 880-1471/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	147
890-443-1 MS	FS01	Total/NA	Solid	8015B NM	140
890-443-1 MSD	FS01	Total/NA	Solid	8015B NM	140
890-443-2 MS	FS02	Total/NA	Solid	8015B NM	147
890-443-2 MSD	FS02	Total/NA	Solid	8015B NM	147

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Client: WSP USA Inc. Job ID: 890-443-1 Project/Site: Longview 31-1 SDG: Eddy County NM

GC Semi VOA

Prep Batch: 1471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-2	FS02	Total/NA	Solid	8015NM Prep	
890-443-3	FS03	Total/NA	Solid	8015NM Prep	
890-443-4	FS04	Total/NA	Solid	8015NM Prep	
890-443-5	FS05	Total/NA	Solid	8015NM Prep	
890-443-6	FS06	Total/NA	Solid	8015NM Prep	
890-443-7	FS07	Total/NA	Solid	8015NM Prep	
890-443-8	FS08	Total/NA	Solid	8015NM Prep	
890-443-9	FS09	Total/NA	Solid	8015NM Prep	
890-443-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-1471/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1471/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1471/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-443-2 MS	FS02	Total/NA	Solid	8015NM Prep	
890-443-2 MSD	FS02	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-443-1	FS01	Soluble	Solid	DI Leach	
890-443-2	FS02	Soluble	Solid	DI Leach	
890-443-3	FS03	Soluble	Solid	DI Leach	
890-443-4	FS04	Soluble	Solid	DI Leach	
890-443-5	FS05	Soluble	Solid	DI Leach	
890-443-6	FS06	Soluble	Solid	DI Leach	
890-443-7	FS07	Soluble	Solid	DI Leach	
890-443-8	FS08	Soluble	Solid	DI Leach	
890-443-9	FS09	Soluble	Solid	DI Leach	
890-443-10	FS10	Soluble	Solid	DI Leach	
890-443-11	FS11	Soluble	Solid	DI Leach	
890-443-12	FS12	Soluble	Solid	DI Leach	
890-443-13	FS13	Soluble	Solid	DI Leach	
890-443-14	FS14	Soluble	Solid	DI Leach	
890-443-15	FS15	Soluble	Solid	DI Leach	
890-443-16	FS16	Soluble	Solid	DI Leach	
890-443-17	FS17	Soluble	Solid	DI Leach	
890-443-19	FS19	Soluble	Solid	DI Leach	
890-443-20	FS20	Soluble	Solid	DI Leach	
MB 880-1521/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1521/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1521/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-443-1 MS	FS01	Soluble	Solid	DI Leach	
890-443-1 MSD	FS01	Soluble	Solid	DI Leach	
890-443-11 MS	FS11	Soluble	Solid	DI Leach	
890-443-11 MSD	FS11	Soluble	Solid	DI Leach	

Leach Batch: 1542

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Lab S	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4	443-18	FS18	Soluble	Solid	DI Leach	
890-4	443-21	FS21	Soluble	Solid	DI Leach	
MB 8	380-1542/1-A	Method Blank	Soluble	Solid	DI Leach	

Client: WSP USA Inc.

Project/Site: Longview 31-1

SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 1542 (Continued)

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
ı	LCS 880-1542/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
	LCSD 880-1542/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-1	FS01	Soluble	Solid	300.0	1521
890-443-2	FS02	Soluble	Solid	300.0	1521
890-443-3	FS03	Soluble	Solid	300.0	1521
890-443-4	FS04	Soluble	Solid	300.0	1521
890-443-5	FS05	Soluble	Solid	300.0	1521
890-443-6	FS06	Soluble	Solid	300.0	1521
890-443-7	FS07	Soluble	Solid	300.0	1521
890-443-8	FS08	Soluble	Solid	300.0	1521
890-443-9	FS09	Soluble	Solid	300.0	1521
890-443-10	FS10	Soluble	Solid	300.0	1521
890-443-11	FS11	Soluble	Solid	300.0	1521
890-443-12	FS12	Soluble	Solid	300.0	1521
890-443-13	FS13	Soluble	Solid	300.0	1521
890-443-14	FS14	Soluble	Solid	300.0	1521
890-443-15	FS15	Soluble	Solid	300.0	1521
890-443-16	FS16	Soluble	Solid	300.0	1521
890-443-17	FS17	Soluble	Solid	300.0	1521
890-443-19	FS19	Soluble	Solid	300.0	1521
890-443-20	FS20	Soluble	Solid	300.0	1521
MB 880-1521/1-A	Method Blank	Soluble	Solid	300.0	1521
LCS 880-1521/2-A	Lab Control Sample	Soluble	Solid	300.0	1521
LCSD 880-1521/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1521
890-443-1 MS	FS01	Soluble	Solid	300.0	1521
890-443-1 MSD	FS01	Soluble	Solid	300.0	1521
890-443-11 MS	FS11	Soluble	Solid	300.0	152
890-443-11 MSD	FS11	Soluble	Solid	300.0	1521

Analysis Batch: 1625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-443-18	FS18	Soluble	Solid	300.0	1542
890-443-21	FS21	Soluble	Solid	300.0	1542
MB 880-1542/1-A	Method Blank	Soluble	Solid	300.0	1542
LCS 880-1542/2-A	Lab Control Sample	Soluble	Solid	300.0	1542
LCSD 880-1542/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1542

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Job ID: 890-443-1 SDG: Eddy County NM

Project/Site: Longview 31-1 **Client Sample ID: FS01**

Client: WSP USA Inc.

Lab Sample ID: 890-443-1

Matrix: Solid

Date Collected: 03/25/21 15:35 Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1434	04/07/21 11:05	MR	XM
Total/NA	Analysis	8021B		1	1437	04/07/21 19:12	KL	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 11:43	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 17:48	CH	XM

Client Sample ID: FS02 Lab Sample ID: 890-443-2 Date Collected: 03/25/21 15:45 Matrix: Solid

Date Received: 03/26/21 16:47

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1443 04/07/21 12:13 MR XM Total/NA 8021B 04/07/21 16:34 MR XM Analysis 1 1444 Total/NA ΧM Prep 8015NM Prep 1471 04/07/21 15:02 DM Total/NA 8015B NM Analysis 1 1417 04/07/21 21:24 AJXMΧM Soluble Leach DI Leach 1521 04/08/21 12:04 SC Soluble Analysis 300.0 1 1548 04/08/21 18:04 CH XM

Client Sample ID: FS03 Lab Sample ID: 890-443-3

Date Collected: 03/25/21 12:48 **Matrix: Solid** Date Received: 03/26/21 16:47

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab 5035 XM Total/NA Prep 1443 04/07/21 12:13 MR Total/NA Analysis 8021B 04/07/21 16:54 MR XM 1 1444 Total/NA 8015NM Prep 04/07/21 15:02 ΧM Prep 1471 DM Total/NA 8015B NM ΧM Analysis 1 1417 04/07/21 22:28 AJ 04/08/21 12:04 ΧM Soluble Leach DI Leach 1521 SC ΧM Soluble Analysis 300.0 5 04/08/21 18:10 CH 1548

Client Sample ID: FS04 Lab Sample ID: 890-443-4

Date Collected: 03/25/21 12:50 Matrix: Solid Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 17:15	MR	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 22:49	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 18:15	CH	XM

Job ID: 890-443-1 SDG: Eddy County NM

Client: WSP USA Inc. Project/Site: Longview 31-1

Lab Sample ID: 890-443-5

Client Sample ID: FS05 Date Collected: 03/25/21 12:56

Date Received: 03/26/21 16:47

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 17:35	MR	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 23:11	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		5	1548	04/08/21 18:21	CH	XM

Lab Sample ID: 890-443-6

Date Collected: 03/25/21 13:00 Date Received: 03/26/21 16:47

Client Sample ID: FS06

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 17:56	MR	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 23:33	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 18:37	CH	XM

Lab Sample ID: 890-443-7 **Client Sample ID: FS07**

Matrix: Solid

Date Collected: 03/25/21 13:05 Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 18:16	MR	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 23:53	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 18:43	CH	XM

Lab Sample ID: 890-443-8 **Client Sample ID: FS08** Date Collected: 03/25/21 13:10

Date Received: 03/26/21 16:47

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 18:37	MR	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/08/21 00:15	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 18:48	CH	XM

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-443-1

SDG: Eddy County NM

Client Sample ID: FS09 Date Collected: 03/25/21 13:12

Lab Sample ID: 890-443-9 Matrix: Solid

Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 17:04	AJ	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/08/21 00:36	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		5	1548	04/08/21 18:54	CH	XM

Client Sample ID: FS10 Lab Sample ID: 890-443-10 Date Collected: 03/25/21 13:15 **Matrix: Solid**

Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 17:30	AJ	XM
Total/NA	Prep	8015NM Prep			1471	04/07/21 15:02	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/08/21 00:57	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		5	1548	04/08/21 18:59	CH	XM

Client Sample ID: FS11 Lab Sample ID: 890-443-11

Date Collected: 03/25/21 13:20 Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 17:55	AJ	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 16:19	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		5	1548	04/08/21 19:05	CH	XM

Client Sample ID: FS12 Lab Sample ID: 890-443-12

Date Collected: 03/25/21 13:22 Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1506	04/08/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	1508	04/08/21 18:20	AJ	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 16:40	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		5	1548	04/08/21 19:22	CH	XM

Eurofins Xenco, Carlsbad

Matrix: Solid

Job ID: 890-443-1 SDG: Eddy County NM

Project/Site: Longview 31-1

Client Sample ID: FS13

Client: WSP USA Inc.

Lab Sample ID: 890-443-13

Date Collected: 03/25/21 13:27 Date Received: 03/26/21 16:47 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 21:49	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 17:01	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		5	1548	04/08/21 19:27	CH	XM

Lab Sample ID: 890-443-14

Matrix: Solid

Date Collected: 03/25/21 14:26 Date Received: 03/26/21 16:47

Client Sample ID: FS14

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 22:09	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 17:22	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 19:44	CH	XM

Client Sample ID: FS15 Lab Sample ID: 890-443-15

Date Collected: 03/25/21 14:28 Matrix: Solid
Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 22:29	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 17:43	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 19:49	CH	XM

Client Sample ID: FS16 Lab Sample ID: 890-443-16

Date Collected: 03/25/21 14:30 Matrix: Solid
Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 22:50	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 18:11	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 19:55	CH	XM

Job ID: 890-443-1

Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County NM

Lab Sample ID: 890-443-17

Matrix: Solid

Date Collected: 03/25/21 14:35 Date Received: 03/26/21 16:47

Client Sample ID: FS17

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 23:10	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 18:33	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 20:00	CH	XM

Client Sample ID: FS18 Lab Sample ID: 890-443-18 Matrix: Solid Date Collected: 03/26/21 13:10

Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 23:31	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 18:54	AJ	XM
Soluble	Leach	DI Leach			1542	04/08/21 15:27	SC	XM
Soluble	Analysis	300.0		1	1625	04/11/21 20:03	CH	XM

Client Sample ID: FS19 Lab Sample ID: 890-443-19

Date Collected: 03/25/21 14:55 **Matrix: Solid** Date Received: 03/26/21 16:47

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 23:51	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 19:16	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 20:06	CH	XM

Lab Sample ID: 890-443-20 **Client Sample ID: FS20** Date Collected: 03/25/21 14:57

Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/08/21 00:11	MR	XM
Total/NA	Prep	8015NM Prep			1401	04/06/21 16:11	DM	XM
Total/NA	Analysis	8015B NM		1	1417	04/07/21 19:37	AJ	XM
Soluble	Leach	DI Leach			1521	04/08/21 12:04	SC	XM
Soluble	Analysis	300.0		1	1548	04/08/21 20:11	CH	XM

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-443-1

Project/Site: Longview 31-1

SDG: Eddy County NM

Client Sample ID: FS21

Lab Sample ID: 890-443-21

Matrix: Solid

Date Collected: 03/25/21 15:00 Date Received: 03/26/21 16:47

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1443	04/07/21 12:13	MR	XM
Total/NA	Analysis	8021B		1	1444	04/07/21 16:14	MR	XM
Total/NA	Prep	8015NM Prep			1378	04/06/21 13:35	DM	XM
Total/NA	Analysis	8015B NM		1	1362	04/07/21 03:30	AJ	XM
Soluble	Leach	DI Leach			1542	04/08/21 15:27	SC	XM
Soluble	Analysis	300.0		1	1625	04/11/21 20:22	CH	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Longview 31-1

SDG: Eddy County NM

Laboratory: Eurofins Xenco, Midland

Released to Imaging: 9/1/2021 10:15:26 AM

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Longview 31-1

Job ID: 890-443-1 SDG: Eddy County NM

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

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Sample Summary

Client: WSP USA Inc. Project/Site: Longview 31-1 Job ID: 890-443-1 SDG: Eddy County NM

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ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-443-1	FS01	Solid	03/25/21 15:35	03/26/21 16:47	1 - 3
390-443-2	FS02	Solid	03/25/21 15:45	03/26/21 16:47	2 - 3
390-443-3	FS03	Solid	03/25/21 12:48	03/26/21 16:47	- 1
390-443-4	FS04	Solid	03/25/21 12:50	03/26/21 16:47	- 1
390-443-5	FS05	Solid	03/25/21 12:56	03/26/21 16:47	- 1
390-443-6	FS06	Solid	03/25/21 13:00	03/26/21 16:47	- 1
390-443-7	FS07	Solid	03/25/21 13:05	03/26/21 16:47	- 1
390-443-8	FS08	Solid	03/25/21 13:10	03/26/21 16:47	- 1
90-443-9	FS09	Solid	03/25/21 13:12	03/26/21 16:47	- 1
390-443-10	FS10	Solid	03/25/21 13:15	03/26/21 16:47	- 1
390-443-11	FS11	Solid	03/25/21 13:20	03/26/21 16:47	- 1
90-443-12	FS12	Solid	03/25/21 13:22	03/26/21 16:47	- 1
90-443-13	FS13	Solid	03/25/21 13:27	03/26/21 16:47	- 1
90-443-14	FS14	Solid	03/25/21 14:26	03/26/21 16:47	- 1
90-443-15	FS15	Solid	03/25/21 14:28	03/26/21 16:47	- 1
90-443-16	FS16	Solid	03/25/21 14:30	03/26/21 16:47	- 1
90-443-17	FS17	Solid	03/25/21 14:35	03/26/21 16:47	- 1
90-443-18	FS18	Solid	03/26/21 13:10	03/26/21 16:47	1 - 2
90-443-19	FS19	Solid	03/25/21 14:55	03/26/21 16:47	
90-443-20	FS20	Solid	03/25/21 14:57	03/26/21 16:47	
90-443-21	FS21	Solid	03/25/21 15:00	03/26/21 16:47	

Project Location

Project Number:

TE \$34821864

Routine

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Pres.

Turn Around

Courses

Longniew 31-

Project Name:

Phone: (781) 702-2329

Email: 100 hernandeze wsp. com + anna byese wsp. c

ANALYSIS REQUEST

None: NO

MeOH: Me

Preservative Codes

Deliverables: EDD

Project Manager: Company Name: City, State ZIP: ABORATORIES JOSEAH 3350 N MSP USA Midland TRANAS DEC A Street 40.70 Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crasibad, NM (432) 704-5440 Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Company Name: Bill to: (If different City, State ZIP: Address: Chain of Custody Carloback Xow 5315 Burner Wish JIM FAREN 82220 Reporting:Level II | Level III | PST/JST | TRRP | Level IV | Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project Work Order No: Work Order Comments 으

4/12/2021

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E B SAMPLE RECEIPT of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample su of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions FSOG 12×8 ESQ1 France TUX X chinquished by: (Signature) 1200 F503 FX82 SX Sample Custody Seals: Sampler's Name: Anna 2/2 Cooler Custody Seals: Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Sample Identification Temperature (°C): Received Intact: PO #: 200.8 / 6020: Yes Yes Byes No Temp Blank: 8 Matrix N/A (V N/A Received by: (Signature) (Yes) No 3/25/21 Sampled E Date Correction Factor: Total Containers: Time Sampled TCLP / SPLP 6010: 8RCRA Sb 1200 hermometer ID 1310 248 1315 13/2 13:84 545 1535 1250 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Wet Ice: Due Date: 2-3 Depth w ö **Number of Containers** 26 As Ba Be Cd Cr Co Cu Pb TPH (EPA EXISTHOOL) BTEX (FRA BAZIB) Chlorida (EPA 3000) Relinquished by: (Signature) Q 890-443 Chain of Custody Mn Mo Ni Se Ag TI U Co Cu Fe Pb Mg Mn Mo Ni K Se Received by: (Signature) Αg SiO2 Na 1631 / 245.1 / 7470 / 7471 : Hg Sr Ti Sn U V Zn TAT starts the day recevied by the lab. Zn Acetate+ NaOH: Zn HNO3: HN NaOH: Na HCL: H H2S04: H2 Sample Comments received by 4:00pm Date/Time Page 44 of 48

Revised Date 022619 Rev. 2019.

Project Manager: Company Name:

Hemande 2

3300 N

Chain of Custody

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

Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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BALEY

Brown Vista Pr

State of Project:

Program: UST/PST ☐ PRP ☐ Brownfields ☐RRC ☐ Superfund ☐

Work Order Comments

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4/12/2021

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Work Order No:

l G	ω	2		9 9 Z		-	_			_						Lab					S/								Ī
		mar	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard ferms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	F520	ESIG	1318	FSIT	FSIL	FSIS	な立	FSI3	なら	FSIL	Sample Identification		+	Received Intact: Yes	Temperature (°C):	SAMPLE RECEIPT TO		Sampler's Name:	Project Location Eddy		Project Name: LONGVIC	Phone: (281) 7	City, State ZIP: Midland	
		Che C	Received by:	ishment of samples constitut t of samples and shall not as applied to each project and a	6020:) to be analyzed	3/35/21	3/25/21	3/26/21	*			142		- ' ' '	5 3/2/2	Matrix Sampled	No N/A Tot	No N/A COM	No No		Temp Blank: Yes No	Quote #:	Bren	Court	16 p3 48 21 x 56	ongview 31-1	742-2329	SALDE XJ'P	
	-		by: (Signature)	es a valid purchase order from sume any responsibility for an charge of \$5 for each sample	8RCRA 13PPM TCLP / SPLP 6010:		1455 1	-	1435 1'	1430 1/	1428 1/	1- CONTRACT - 1-	1327 1	1322 1'	13200 1	Time Depth	Total Containers:	Correction Factor:		Thermometer ID	Wet Ice: Yes		Due Date:	Rush:	Routine	Turn Around	Email: joc. v		
	1	Ų,		y losses or expubmitted to X	Texas 11 8RCRA S	-	-	-	_	_	_	_	~	^	_	Numbe	er of	Co	ntai	ner	No S				Code	<u>a</u>	joc. herrounder	City, State ZIP:	
		3.26.216	Date/Time	ny to Xenco, i penses incurr enco, but pot	Al Sb As Ba Sb As Ba Be								_			TPU											10 to 20	Lari	
		641	ne	ts affiliates ar ed by the clie analyzed. The	Be Cd Cr				_							BTE			_	_			_				in aran	Stand	
6	4	2	Relinquished by: (Signature)	d subcontractors. It assigns standard terms and condit on it is such losses are due to circumstances beyond the conditions are such assessment of the conditions of the condit	B Cd Ca Cr Co Cu Fe Pb Mg Or Co Cu Pb Mn Mo Ni Se Ag																_					ANALYSIS REQUEST	Johns byese WSP cont	ad, DW BBCC	
-			lre)	erms and cond as beyond the cases negotiated	Ag TI U																					UEST	Delivera	Heportir	
			Received by: (Signature)	tions	K Se Ag SiO2																						Deliverables: EDD AI	Level	
			nature)		1631 / 2	` <u> </u>			2			-					T	TAT sta	Zn Ace	NaOH: Na	HCL: HL	H2S04: H2	HNO3: HN	None: NO	MeOH: Me		ADaPT L] [
Revised Date 022619 Rov 2019 1			Date/Time		1631 / 245.1 / 7470 / 7471 : Hg		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	18/8/	K Z C	X 2 X	(,,'	2				Sample Comments	received by 4:00pm	TAT starts the day recevied by the lab, if	Zn Acetate+ NaOH: Zn	t: Na	Ŧ	4: H2	S: HN	NO	1: Me	Preservative Codes	Other:	Likky Licevel in	
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E Lab SAMPLE RECEIPT of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each si of service. Xenco will be flable 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 Relinquished by: (Signature) Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions T&2 Sample Custody Seals: Sampler's Name: Project Manager: **Project Location** Cooler Custody Seals: Project Number: Company Name: Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed City, State ZIP: **Project Name:** Sample Identification Temperature (°C) Received Intact: Address: PO#: ABORATORIES 1Ex 34 B7.1000 781 Anna Midland 2300 Tosegy WSD USA enginew 31-1 200.8 / 6020: Yes Yes No 782-2320 Temp Blank: ĕ Journets. Matrix N/A HERNALINEZ N A 0 E Received by: (Signature) 3/25/21 1500 Sampled Yes No Quote #: Date いならから Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Correction Factor: 30 **Total Containers:** Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) 704-5440 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Sampled hermometer ID 8RCRA 13PPM Time Wat-lee! Routine Email: 100 her na rde 20 ws on towns by con con Rush: Due Date Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Turn Around Yes Depth Company Name: Bill to: (if different) City, State ZIP: Š Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Address: Code **Number of Containers** Chain of Custody Date/Time 5315 TPH (EPA 8015 Mod) CARIO XXM 3 BTEX (EPA 8021B) BUENAVISTA DR Chloride (ERA 3600) SAD the the Relinquished by: (Signature) NM 2822W **ANALYSIS REQUEST** Deliverables: EDD Reporting:Level II Level III PST/UST TRRP Level IV **∃** ⊂ Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Z. Received by: (Signature) Se Work Order No: Ą Work Order Comments SiO2 Na Sr Ti Sn U V Zn ADaPT 🗆 631 / 245.1 / 7470 TAT starts the day recevied by the lab, received by 4:00pm NaOH: Na H2S04: H2 HNO3: HN MeOH: Me Zn Acetate+ NaOH: Zn HCL: HL None: NO Page **Preservative Codes** Sample Comments Other 10 Date/Time / **7471** : Hg 으 11/ Page 46 of 48 4/12/2021

Revised Date 022619 Rev. 2019 :

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-443-1 SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Login Number: 443 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 443

List Number: 2

Job Number: 890-443-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 04/06/21 07:56 AM

Creator: Kramer, Jessica

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

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-452-1

Laboratory Sample Delivery Group: Eddy County

Client Project/Site: Longview 31-1

Revision: 2

For:

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

Attn: Joseph Hernandez

MAMER

Authorized for release by: 4/29/2021 10:05:21 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

Released to Imaging: 9/1/2021 10:15:26 AM

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

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

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Client: WSP USA Inc.
Project/Site: Longview 31-1

Laboratory Job ID: 890-452-1
SDG: Eddy County

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-452-1 Project/Site: Longview 31-1 SDG: Eddy County

Qualifiers

GC VOA Qualifier

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

GC Semi VOA

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time
U	Indicates the analyte was analyzed for but not detected

HPLC/IC

Indicates the analyte was analyzed for but not detected.

Glossary

DLC

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

Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL 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

Practical Quantitation Limit PQL

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-452-1

SDG: Eddy County

Job ID: 890-452-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-452-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/20/2021. The report (revision 1) is being revised due to: Per Client request - re run chloride on sample FS23 and TPH for sample FS24.

Receipt

The samples were received on 3/30/2021 8:57 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

Receipt Exceptions

Per Client request - re run chloride on sample FS23 and TPH for sample FS24

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS26 (890-452-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Job ID: 890-452-1

Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

Lab Sample ID: 890-452-1

Client Sample ID: FS22 Date Collected: 03/29/21 09:45 Date Received: 03/30/21 08:57

Matrix: Solid

Sample Depth: 1 - 1.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				04/06/21 11:00	04/06/21 18:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/06/21 11:00	04/06/21 18:42	1

Method: 8015B NM - Diesel R	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		04/03/21 13:15	04/04/21 14:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 13:15	04/04/21 14:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 13:15	04/04/21 14:05	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 13:15	04/04/21 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/03/21 13:15	04/04/21 14:05	1
o-Terphenyl	96		70 - 130				04/03/21 13:15	04/04/21 14:05	1

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solu <mark>l</mark>	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.4		4.95		mg/Kg			04/19/21 21:41	1

Lab Sample ID: 890-452-2 **Client Sample ID: FS23** Date Collected: 03/29/21 13:45

Date Received: 03/30/21 08:57

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/06/21 11:00	04/06/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/06/21 11:00	04/06/21 19:03	1
1,4-Difluorobenzene (Surr)	113		70 - 130				04/06/21 11:00	04/06/21 19:03	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Job ID: 890-452-1 SDG: Eddy County

Project/Site: Longview 31-1

Date Received: 03/30/21 08:57

Client Sample ID: FS23 Lab Sample ID: 890-452-2 Date Collected: 03/29/21 13:45

Matrix: Solid

Sample Depth: - 1

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		04/03/21 13:15	04/04/21 15:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/03/21 13:15	04/04/21 15:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/03/21 13:15	04/04/21 15:08	1
Total TPH	<49.9	U	49.9		mg/Kg		04/03/21 13:15	04/04/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				04/03/21 13:15	04/04/21 15:08	1
o-Terphenyl	107		70 - 130				04/03/21 13:15	04/04/21 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 47.1 4.99 mg/Kg 04/26/21 17:00

Client Sample ID: FS24 Lab Sample ID: 890-452-3

Date Collected: 03/29/21 13:50 **Matrix: Solid**

Date Received: 03/30/21 08:57

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00391		0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
Toluene	0.00342		0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
Ethylbenzene	< 0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
m-Xylene & p-Xylene	0.00562		0.00401		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
o-Xylene	0.00235		0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
Xylenes, Total	0.00797		0.00401		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
Total BTEX	0.0153		0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	288	S1+	70 - 130				04/06/21 11:00	04/06/21 19:23	1
1,4-Difluorobenzene (Surr)	196	S1+	70 - 130				04/06/21 11:00	04/06/21 19:23	1
	_		• •	MDI	Unit	D	Prenared	Analyzed	Dil Fac
Mothod: 9045D NM Discol D	ongo Organ	ico (DBO)	(CC)						
Method: 8015B NM - Diesel R Analyte	Result	Qualifier	RL _	MDL		<u>D</u>	Prepared 04/03/04 43:45	Analyzed	Dil Fac
Analyte Gasoline Range Organics	_	Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/03/21 13:15	Analyzed 04/04/21 15:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL _	MDL		<u> </u>	04/03/21 13:15		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	MDL	mg/Kg	<u> </u>	04/03/21 13:15 04/03/21 13:15	04/04/21 15:30	1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 <49.9	Qualifier U	RL 49.9 49.9	MDL	mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/04/21 15:30 04/04/21 15:30	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/04/21 15:30 04/04/21 15:30 04/04/21 15:30	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 04/04/21 15:30	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80	Qualifier U U U U	RL 49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 Prepared 04/03/21 13:15	04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 Analyzed	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <120 119	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 Prepared 04/03/21 13:15	04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 Analyzed 04/04/21 15:30	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 Prepared 04/03/21 13:15	04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 04/04/21 15:30 Analyzed 04/04/21 15:30	1

Client: WSP USA Inc.

Job ID: 890-452-1

Project/Site: Longview 31-1

SDG: Eddy County

Project/Site: Longview 31-1 SDG: Eddy County

Client Sample ID: FS25

Lab Sample ID: 890-452-4

Date Collected: 03/29/21 13:40

Date Received: 03/30/21 08:57

Matrix: Solid

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				04/06/21 11:00	04/06/21 19:44	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/06/21 11:00	04/06/21 19:44	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 15:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 15:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 15:52	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/03/21 13:15	04/04/21 15:52	1
o-Terphenyl	103		70 - 130				04/03/21 13:15	04/04/21 15:52	1

Method: 300.0 - Anions, Ion C	hromatography - S	Soluble						
Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284	4.95		mg/Kg			04/09/21 12:15	1

Client Sample ID: FS27

Date Collected: 03/29/21 14:00

Lab Sample ID: 890-452-5

Matrix: Solid

Date Received: 03/30/21 08:57

Sample Depth: 2 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00290		0.00200		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
Total BTEX	0.00290	В	0.00200		mg/Kg		04/07/21 09:26	04/07/21 13:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/07/21 09:26	04/07/21 13:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/07/21 09:26	04/07/21 13:26	1

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Job ID: 890-452-1 SDG: Eddy County

Client: WSP USA Inc. Project/Site: Longview 31-1

Date Collected: 03/29/21 14:00

Client Sample ID: FS27

Lab Sample ID: 890-452-5

Matrix: Solid

Date Received: 03/30/21 08:57 Sample Depth: 2 - 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		04/03/21 13:15	04/04/21 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 16:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 16:13	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/03/21 13:15	04/04/21 16:13	1
o-Terphenyl	103		70 - 130				04/03/21 13:15	04/04/21 16:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RLMDL Unit Prepared Analyzed Dil Fac Chloride 214 5.04 mg/Kg 04/15/21 21:55

Client Sample ID: FS26 Lab Sample ID: 890-452-6

Date Collected: 03/29/21 13:35 **Matrix: Solid**

Date Received: 03/30/21 08:57

Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
Toluene	0.00472		0.00199		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
o-Xylene	0.00815	В	0.00199		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
Xylenes, Total	0.00815		0.00398		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
Total BTEX	0.0129	В	0.00199		mg/Kg		04/07/21 09:26	04/07/21 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				04/07/21 09:26	04/07/21 13:47	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				04/07/21 09:26	04/07/21 13:47	1
Method: 8015B NM - Diesel R	_		• •	MDI	Unit	Р	Propared	Analyzod	Dil Ess
Mothod: 9045D NM Diocel D	anga Organ	ios (DBO)	(CC)						
Analyte	Result	ics (DRO) Qualifier	RL _	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	_		• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/03/21 13:15	Analyzed 04/04/21 16:35	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier	RL _	MDL		<u>D</u>	04/03/21 13:15		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 59.2	Qualifier U	RL 49.9	MDL	mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15	04/04/21 16:35	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 59.2 <49.9	Qualifier U	RL 49.9 49.9	MDL	mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/04/21 16:35 04/04/21 16:35	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 59.2 <49.9 <49.9	Qualifier U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/04/21 16:35 04/04/21 16:35 04/04/21 16:35	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 59.2 <49.9 <49.9 59.2	Qualifier U	49.9 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 04/04/21 16:35	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 59.2 <49.9 <49.9 <59.2 %Recovery	Qualifier U	RL 49.9 49.9 49.9 49.9 Limits	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 Prepared 04/03/21 13:15	04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 Analyzed	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 59.2 <49.9 <49.9 59.2 %Recovery 100 101	Qualifier U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 Prepared 04/03/21 13:15	04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 Analyzed 04/04/21 16:35	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15 Prepared 04/03/21 13:15	04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 04/04/21 16:35 Analyzed 04/04/21 16:35	1 1

Job ID: 890-452-1 SDG: Eddy County

Client: WSP USA Inc. Project/Site: Longview 31-1

Client Sample ID: FS28

Date Collected: 03/29/21 14:55

Lab Sample ID: 890-452-7

Matrix: Solid

Date Received: 03/30/21 08:57 Sample Depth: - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/07/21 09:26	04/07/21 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/07/21 09:26	04/07/21 14:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/07/21 09:26	04/07/21 14:07	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	UH	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	UH	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:27	1
Oll Range Organics (Over C28-C36)	<50.0	UH	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:27	1
Total TPH	<50.0	UH	50.0		mg/Kg		04/26/21 08:55	04/26/21 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	-	70 - 130				04/03/21 13:15	04/04/21 16:56	1
o-Terphenyl	108		70 - 130				04/03/21 13:15	04/04/21 16:56	1

Method: 300.0 - Anions, Ion Cl	hromatography - Solub	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0	5.03	mg/Kg			04/15/21 22:06	1

Client Sample ID: FS29 Lab Sample ID: 890-452-8 Date Collected: 03/29/21 14:28

Sample Depth: - 0.5

Date Received: 03/30/21 08:57

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				04/07/21 09:26	04/07/21 14:28	1
1,4-Difluorobenzene (Surr)	112		70 - 130				04/07/21 09:26	04/07/21 14:28	1

Matrix: Solid

Job ID: 890-452-1

Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

Lab Sample ID: 890-452-8

Date Collected: 03/29/21 14:28 Date Received: 03/30/21 08:57

Client Sample ID: FS29

Matrix: Solid

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/03/21 13:15	04/04/21 17:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/03/21 13:15	04/04/21 17:18	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/03/21 13:15	04/04/21 17:18	1
Total TPH	<49.8	U	49.8		mg/Kg		04/03/21 13:15	04/04/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/03/21 13:15	04/04/21 17:18	1
o-Terphenyl	93		70 - 130				04/03/21 13:15	04/04/21 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Chloride 96.5 5.03 mg/Kg 04/15/21 22:12

Client Sample ID: FS30 Lab Sample ID: 890-452-9

Date Collected: 03/29/21 14:25 **Matrix: Solid**

Date Received: 03/30/21 08:57

Sample Depth: - 0.5

Method: 8021B - Volatile Orga	anic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
Xylenes, Total	< 0.00404	U	0.00404		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		04/07/21 09:26	04/07/21 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				04/07/21 09:26	04/07/21 14:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/07/21 09:26	04/07/21 14:49	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		04/03/21 13:15	04/04/21 17:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 17:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 17:40	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/03/21 13:15	04/04/21 17:40	1
o-Terphenyl	95		70 - 130				04/03/21 13:15	04/04/21 17:40	1

Eurofins Xenco, Carlsbad

Analyzed

04/15/21 22:17

Prepared

RL

5.05

MDL Unit

mg/Kg

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

44.1

Job ID: 890-452-1

Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

Lab Sample ID: 890-452-10 **Client Sample ID: SW02**

Date Collected: 03/29/21 09:20 Matrix: Solid Date Received: 03/30/21 08:57

Sample Depth: 0 - 4

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:39	1
			Limits				Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				i repareu	Analyzea	
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 120	Qualifier	70 - 130				04/08/21 10:10	04/08/21 16:39	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	120 86		70 - 130 70 - 130				04/08/21 10:10		1
4-Bromofluorobenzene (Surr)	120 86 ange Organ		70 - 130 70 - 130	MDL	Unit	D	04/08/21 10:10	04/08/21 16:39	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	120 86 ange Organ	ics (DRO) Qualifier	70 - 130 70 - 130 (GC)	MDL	Unit mg/Kg	<u>D</u>	04/08/21 10:10 04/08/21 10:10	04/08/21 16:39 04/08/21 16:39	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte	120 86 ange Organ Result	ics (DRO) Qualifier	70 - 130 70 - 130 (GC)	MDL		<u>D</u>	04/08/21 10:10 04/08/21 10:10 Prepared	04/08/21 16:39 04/08/21 16:39 Analyzed 04/04/21 18:01	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10	120 86 ange Organ Result <49.9	ics (DRO) Qualifier	70 - 130 70 - 130 (GC) RL 49.9	MDL	mg/Kg	<u>D</u>	04/08/21 10:10 04/08/21 10:10 Prepared 04/03/21 13:15	04/08/21 16:39 04/08/21 16:39 Analyzed 04/04/21 18:01	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	120 86 ange Organ Result <49.9	ics (DRO) Qualifier U	70 - 130 70 - 130 (GC) RL 49.9	MDL	mg/Kg	<u>D</u>	04/08/21 10:10 04/08/21 10:10 Prepared 04/03/21 13:15	04/08/21 16:39 04/08/21 16:39 Analyzed 04/04/21 18:01 04/04/21 18:01	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	120 86 ange Organ Result <49.9	Cualifier U	70 - 130 70 - 130 (GC) RL 49.9	MDL	mg/Kg	<u>D</u>	04/08/21 10:10 04/08/21 10:10 Prepared 04/03/21 13:15 04/03/21 13:15	04/08/21 16:39 04/08/21 16:39 Analyzed 04/04/21 18:01 04/04/21 18:01 04/04/21 18:01	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	120 86 ange Organ Result <49.9 <49.9	U U U	70 - 130 70 - 130 (GC) RL 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 10:10 04/08/21 10:10 Prepared 04/03/21 13:15 04/03/21 13:15	04/08/21 16:39 04/08/21 16:39 Analyzed 04/04/21 18:01 04/04/21 18:01 04/04/21 18:01	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	120 86 ange Organ Result <49.9 <49.9 <49.9	U U U	70 - 130 70 - 130 (GC) RL 49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 10:10 04/08/21 10:10 Prepared 04/03/21 13:15 04/03/21 13:15 04/03/21 13:15	04/08/21 16:39 04/08/21 16:39 Analyzed 04/04/21 18:01 04/04/21 18:01 04/04/21 18:01	Dil Fac

5.04

73.6

mg/Kg

Eurofins Xenco, Carlsbad

04/15/21 22:34

Surrogate Summary

Job ID: 890-452-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED:		rrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-452-1	FS22	91	101	
890-452-2	FS23	102	113	
890-452-3	FS24	288 S1+	196 S1+	
890-452-4	FS25	99	108	
890-452-5	FS27	107	107	
890-452-6	FS26	150 S1+	65 S1-	
890-452-7	FS28	93	98	
890-452-8	FS29	95	112	
890-452-9	FS30	99	110	
890-452-10	SW02	120	86	
890-452-10 MS	SW02	113	105	
890-452-10 MSD	SW02	111	102	
LCS 880-1365/1-A	Lab Control Sample	93	109	
LCS 880-1421/1-A	Lab Control Sample	88	104	
LCS 880-1506/1-A	Lab Control Sample	101	96	
LCSD 880-1365/2-A	Lab Control Sample Dup	104	108	
LCSD 880-1421/2-A	Lab Control Sample Dup	92	106	
LCSD 880-1506/2-A	Lab Control Sample Dup	110	112	
MB 880-1365/5-A	Method Blank	110	98	
MB 880-1421/5-A	Method Blank	112	94	
MB 880-1506/5-A	Method Blank	75	83	

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

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

Matrix: Solid Prep Type: Total/NA

			Perc	cent Surroga
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-452-1	FS22	95	96	
890-452-1 MS	FS22	107	99	
890-452-1 MSD	FS22	106	97	
890-452-2	FS23	105	107	
890-452-3	FS24	120	119	
890-452-4	FS25	101	103	
890-452-5	FS27	101	103	
890-452-6	FS26	100	101	
890-452-7	FS28	111	108	
890-452-8	FS29	93	93	
890-452-9	FS30	94	95	
890-452-10	SW02	97	95	
LCS 880-1281/2-A	Lab Control Sample	122	119	
LCS 880-2316/2-A	Lab Control Sample	98	101	
LCSD 880-1281/3-A	Lab Control Sample Dup	116	115	
LCSD 880-2316/3-A	Lab Control Sample Dup	97	100	
MB 880-1281/1-A	Method Blank	98	102	
MB 880-2316/1-A	Method Blank	88	99	

Surrogate Summary

Client: WSP USA Inc. Project/Site: Longview 31-1

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-452-1 SDG: Eddy County

QC Sample Results

Client: WSP USA Inc. Job ID: 890-452-1 Project/Site: Longview 31-1 SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1365/5-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1365

•								•	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/06/21 11:00	04/06/21 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/06/21 11:00	04/06/21 13:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/06/21 11:00	04/06/21 13:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/06/21 11:00	04/06/21 13:28	1

Lab Sample ID: LCS 880-1365/1-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 1365

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.08786		mg/Kg		88	70 - 130	
0.100	0.09506		mg/Kg		95	70 - 130	
0.100	0.08930		mg/Kg		89	70 - 130	
0.200	0.1900		mg/Kg		95	70 - 130	
0.100	0.09434		mg/Kg		94	70 - 130	
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.08786 0.100 0.09506 0.100 0.08930 0.200 0.1900	Added Result Qualifier 0.100 0.08786 0.100 0.09506 0.100 0.08930 0.200 0.1900	Added Result Qualifier Unit 0.100 0.08786 mg/Kg 0.100 0.09506 mg/Kg 0.100 0.08930 mg/Kg 0.200 0.1900 mg/Kg	Added Result Qualifier Unit D 0.100 0.08786 mg/Kg 0.100 0.09506 mg/Kg 0.100 0.08930 mg/Kg 0.200 0.1900 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08786 mg/Kg 88 0.100 0.09506 mg/Kg 95 0.100 0.08930 mg/Kg 89 0.200 0.1900 mg/Kg 95	Added Result Qualifier Unit D %Rec Limits 0.100 0.08786 mg/Kg 88 70 - 130 0.100 0.09506 mg/Kg 95 70 - 130 0.100 0.08930 mg/Kg 89 70 - 130 0.200 0.1900 mg/Kg 95 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-1365/2-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1365

Spike	LCSD LCSI	D		%Rec.		RPD
Added	Result Qual	ifier Unit	D %Rec	Limits	RPD	Limit
0.100	0.09986	mg/Kg	100	70 - 130	13	35
0.100	0.1073	mg/Kg	107	70 - 130	12	35
0.100	0.1087	mg/Kg	109	70 - 130	20	35
0.200	0.2189	mg/Kg	109	70 - 130	14	35
0.100	0.1146	mg/Kg	115	70 - 130	19	35
_	Added 0.100 0.100 0.100 0.100 0.200	Added Result Qual 0.100 0.09986 0.100 0.1073 0.100 0.1087 0.200 0.2189	Added Result Qualifier Unit 0.100 0.09986 mg/Kg 0.100 0.1073 mg/Kg 0.100 0.1087 mg/Kg 0.200 0.2189 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09986 mg/Kg 100 0.100 0.1073 mg/Kg 107 0.100 0.1087 mg/Kg 109 0.200 0.2189 mg/Kg 109	Spike LCSD LCSD %Rec. Added Result Qualifier Unit D %Rec Limits 0.100 0.09986 mg/Kg 100 70 - 130 0.100 0.1073 mg/Kg 107 70 - 130 0.100 0.1087 mg/Kg 109 70 - 130 0.200 0.2189 mg/Kg 109 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.09986 mg/Kg 100 70 - 130 13 0.100 0.1073 mg/Kg 107 70 - 130 12 0.100 0.1087 mg/Kg 109 70 - 130 20 0.200 0.2189 mg/Kg 109 70 - 130 14

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1.4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: MB 880-1421/5-A

Released to Imaging: 9/1/2021 10:15:26 AM

Matrix: Solid

Analysis Batch: 1428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1421

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 09:26	04/07/21 11:43	1

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-452-1 Project/Site: Longview 31-1 SDG: Eddy County

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

Lab Sample ID: MB 880-1421/5-A

Matrix: Solid

Analysis Batch: 1428

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 1421

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Toluene <0.00200 IJ 0.00200 04/07/21 09:26 04/07/21 11:43 mg/Kg Ethylbenzene <0.00200 U 0.00200 mg/Kg 04/07/21 09:26 04/07/21 11:43 <0.00400 U 0.00400 04/07/21 09:26 04/07/21 11:43 m-Xylene & p-Xylene mg/Kg 04/07/21 09:26 04/07/21 11:43 o-Xylene 0.002127 0.00200 mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 04/07/21 09:26 04/07/21 11:43 Total BTEX 0.002127 04/07/21 09:26 04/07/21 11:43 0.00200 mg/Kg

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/07/21 09:26 04/07/21 11:43	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/07/21 09:26 04/07/21 11:43	1

Lab Sample ID: LCS 880-1421/1-A

Matrix: Solid

Analysis Batch: 1428

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

Prep Batch: 1421

LCS LCS Spike %Rec. Analyte Added Result Qualifier %Rec Limits Unit D Benzene 0.100 0.07756 mg/Kg 78 70 - 130 Toluene 0.100 0.08327 83 70 - 130 mg/Kg Ethylbenzene 0.100 0.08557 mg/Kg 86 70 - 130 m-Xylene & p-Xylene 0.200 0.1696 mg/Kg 85 70 - 130 0.100 o-Xylene 0.08357 mg/Kg 84 70 - 130

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.07595

0.08182

0.08503

0.1683

0.08319

Result Qualifier

Unit

mg/Kg

mg/Kg

mq/Kq

mg/Kg

mg/Kg

D

LCS LCS

MB MB

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1.4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-1421/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 1428

Client Sample ID: Lab Control Sample Dup

84

83

Prep Type: Total/NA Prep Batch: 1421

35

35

%Rec. **RPD** %Rec Limits RPD Limit 76 70 - 130 2 35 82 70 - 130 35 2 85 70 - 130 35

LCSD LCSD Surrogate %Recovery Qualifier Limits 92 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 106 70 - 130

Lab Sample ID: MB 880-1506/5-A

Matrix: Solid

Analysis Batch: 1508

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

70 - 130

70 - 130

Prep Batch: 1506

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 mg/Kg 04/08/21 10:10 04/08/21 16:14 Toluene <0.00200 U 0.00200 04/08/21 10:10 04/08/21 16:14 mg/Kg

Client: WSP USA Inc.
Project/Site: Longview 31-1

Job ID: 890-452-1 SDG: Eddy County

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

Lab Sample ID: MB 880-1506/5-A Matrix: Solid

Analysis Batch: 1508

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

Prep Batch: 1506

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/08/21 10:10	04/08/21 16:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:14	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		04/08/21 10:10	04/08/21 16:14	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/08/21 10:10	04/08/21 16:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	04/08/21 10:10	04/08/21 16:14	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/08/21 10:10	04/08/21 16:14	1

Lab Sample ID: LCS 880-1506/1-A

Matrix: Solid

Analysis Batch: 1508

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

Prep Batch: 1506

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1038		mg/Kg		104	70 - 130	
Toluene	0.100	0.1129		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-1506/2-A

Matrix: Solid

Analysis Batch: 1508

Client Sample	ID:	Lab	Control	Sam	ple	Dup
			Dunn To		T-4-	I/NI A

Prep Type: Total/NA

Prep Batch: 1506

	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifie	er Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1103	mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1052	mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1110	mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2278	mg/Kg		114	70 - 130	6	35
o-Xylene	0.100	0.1231	mg/Kg		123	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-452-10 MS

Matrix: Solid

Analysis Batch: 1508

Client Sample ID: SW02 Prep Type: Total/NA Prep Batch: 1506

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09460		mg/Kg		95	70 - 130	
Toluene	<0.00200	U	0.0998	0.1055		mg/Kg		106	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.09655		mg/Kg		97	70 - 130	

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Client: WSP USA Inc. Project/Site: Longview 31-1

Job ID: 890-452-1 SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued) **Lab Sample ID: 890-452**

Matrix: Solid

Analysis Batch: 1508

2-10 MS	Client Sample ID: SW02
	Prep Type: Total/NA

Prep Batch: 1506

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1970		mg/Kg		99	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.1052		mg/Kg		105	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: SW02

A

Lab Sample ID: 890-452-10 MSD	Client Sample ID: SW02
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 1508	Prep Batch: 1506

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.09146		mg/Kg		92	70 - 130	3	35
Toluene	<0.00200	U	0.0996	0.1039		mg/Kg		104	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0996	0.09774		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1986		mg/Kg		100	70 - 130	1	35
o-Xylene	<0.00200	U	0.0996	0.1061		mg/Kg		107	70 - 130	1	35

MSD MSD

MD MD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1.4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-1281/1-A

Matrix: Solid

Analysis Batch: 1291

Client	Sample	ID:	Method	Blank
	_			

Prep Type: Total/NA Prep Batch: 1281

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 13:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 13:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 13:01	1
Total TPH	<50.0	U	50.0		mg/Kg		04/03/21 13:15	04/04/21 13:01	1

	MB MB			
Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	98	70 - 130	04/03/21 13:15 04/04/21 13:0	1
o-Terphenyl	102	70 - 130	04/03/21 13:15 04/04/21 13:0	1 1

Lab Sample ID: LCS 880-1281/2-A

Matrix: Solid

Analysis Batch: 1291

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

Prep Batch: 1281

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	1124		mg/Kg		112	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	931.9		mg/Kg		93	70 - 130	
C10-C28)								

Client: WSP USA Inc. Job ID: 890-452-1 SDG: Eddy County Project/Site: Longview 31-1

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

Lab Sample ID: LCS 880-1281/2-A

Lab Sample ID: LCSD 880-1281/3-A

Analysis Batch: 1291

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Matrix: Solid

LCS LCS %Recovery Qualifier Limits 122 70 - 130

119

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

Prep Batch: 1281

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1281

Analysis Batch: 1291 LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1039 mg/Kg 104 70 - 130 8 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 970.9 mg/Kg 97 70 - 130 20 C10-C28)

70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-452-1 MS

Matrix: Solid

Analysis Batch: 1291

Client Sample ID: FS22 **Prep Type: Total/NA**

Prep Batch: 1281

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <49.9 U 1000 Gasoline Range Organics 1020 mg/Kg 98 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 972.0 mg/Kg 96 70 - 130 C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-452-1 MSD Client Sample ID: FS22

Matrix: Solid Prep Type: Total/NA Analysis Batch: 1291 Prep Batch: 1281

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec <49.9 U 998 1033 99 70 - 130 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 962.1 mg/Kg 95 70 - 130 20

C10-C28)

MSD	MSD	
%Recovery	Qualifier	Lin
106		70

Surrogate mits 1-Chlorooctane 70 - 130 o-Terphenyl 97 70 - 130

Client: WSP USA Inc. Project/Site: Longview 31-1

Job ID: 890-452-1 SDG: Eddy County

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

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

	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
OII 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

Lab Sample ID: LCS 880-2316/2-A

Matrix: Solid

Analysis Batch: 2308

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 2316

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Gasoline Range Organics 1000 995.7 mg/Kg 100 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 942.9 mg/Kg 94 70 - 130

C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 101 70 - 130 o-Terphenyl

Lab Sample ID: LCSD 880-2316/3-A

Matrix: Solid

Analysis Batch: 2308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 2316

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 995.1 100 70 - 130 0 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 944.7 mg/Kg 94 70 - 130 0 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 70 - 130 o-Terphenyl 100

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1544/1-A

Matrix: Solid

Analysis Batch: 1568

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB RL Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U 04/09/21 09:29 mg/Kg

Client: WSP USA Inc. Job ID: 890-452-1 Project/Site: Longview 31-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1544/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1568

LCS LCS Spike %Rec. Added Result Qualifier Limits Analyte Unit D %Rec Chloride 250 251.3 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-1544/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1568

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 251.6 mg/Kg 101 n

Lab Sample ID: MB 880-1759/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1846

MB MB Result Qualifier RL **MDL** Unit **Analyte** Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 04/15/21 20:43 mg/Kg

Lab Sample ID: LCS 880-1759/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1846

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 248.1 250 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-1759/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1846

LCSD LCSD RPD Spike %Rec. Analyte Added %Rec Result Qualifier Unit Limits **RPD** Limit Chloride 250 248.4 99 90 - 110 mg/Kg

Lab Sample ID: 890-452-9 MS Client Sample ID: FS30 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1846

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits 253 Chloride 44.1 299.3 mg/Kg 101 90 - 110

Lab Sample ID: 890-452-9 MSD Client Sample ID: FS30

Matrix: Solid

Analysis Batch: 1846

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 253 99 Chloride 44 1 294.8 mg/Kg 90 - 110

Lab Sample ID: MB 880-1983/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 2015

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MB MB MDL Unit RL D Analyte Result Qualifier Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 04/19/21 20:30 mg/Kg

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Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc. Job ID: 890-452-1 Project/Site: Longview 31-1 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-1983/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Analysis Batch: 2015

LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit Limits D %Rec Chloride 250 250.8 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-1983/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 2015

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 260.2 104 90 - 110 mg/Kg

Lab Sample ID: MB 880-2318/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 2328

MB MB

Result Qualifier RL MDL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 04/26/21 14:38 mg/Kg

Lab Sample ID: LCS 880-2318/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 2328

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 256.5 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-2318/3-A

Matrix: Solid

Analysis Batch: 2328

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit Limits Limit %Rec Chloride 250 258.2 103 20 mg/Kg 90 - 110

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Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-452-1

SDG: Eddy County

GC VOA

Prep Batch: 1365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-1	FS22	Total/NA	Solid	5035	
890-452-2	FS23	Total/NA	Solid	5035	
890-452-3	FS24	Total/NA	Solid	5035	
890-452-4	FS25	Total/NA	Solid	5035	
MB 880-1365/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1365/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1365/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-1	FS22	Total/NA	Solid	8021B	1365
890-452-2	FS23	Total/NA	Solid	8021B	1365
890-452-3	FS24	Total/NA	Solid	8021B	1365
890-452-4	FS25	Total/NA	Solid	8021B	1365
MB 880-1365/5-A	Method Blank	Total/NA	Solid	8021B	1365
LCS 880-1365/1-A	Lab Control Sample	Total/NA	Solid	8021B	1365
LCSD 880-1365/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1365

Prep Batch: 1421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-5	FS27	Total/NA	Solid	5035	
890-452-6	FS26	Total/NA	Solid	5035	
890-452-7	FS28	Total/NA	Solid	5035	
890-452-8	FS29	Total/NA	Solid	5035	
890-452-9	FS30	Total/NA	Solid	5035	
MB 880-1421/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1421/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1421/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-5	FS27	Total/NA	Solid	8021B	1421
890-452-6	FS26	Total/NA	Solid	8021B	1421
890-452-7	FS28	Total/NA	Solid	8021B	1421
890-452-8	FS29	Total/NA	Solid	8021B	1421
890-452-9	FS30	Total/NA	Solid	8021B	1421
MB 880-1421/5-A	Method Blank	Total/NA	Solid	8021B	1421
LCS 880-1421/1-A	Lab Control Sample	Total/NA	Solid	8021B	1421
LCSD 880-1421/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1421

Prep Batch: 1506

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-10	SW02	Total/NA	Solid	5035	
MB 880-1506/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-452-10 MS	SW02	Total/NA	Solid	5035	
890-452-10 MSD	SW02	Total/NA	Solid	5035	

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Job ID: 890-452-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

GC VOA

Analysis Batch: 1508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-10	SW02	Total/NA	Solid	8021B	1506
MB 880-1506/5-A	Method Blank	Total/NA	Solid	8021B	1506
LCS 880-1506/1-A	Lab Control Sample	Total/NA	Solid	8021B	1506
LCSD 880-1506/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1506
890-452-10 MS	SW02	Total/NA	Solid	8021B	1506
890-452-10 MSD	SW02	Total/NA	Solid	8021B	1506

GC Semi VOA

Prep Batch: 1281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-1	FS22	Total/NA	Solid	8015NM Prep	
890-452-2	FS23	Total/NA	Solid	8015NM Prep	
890-452-3	FS24	Total/NA	Solid	8015NM Prep	
890-452-4	FS25	Total/NA	Solid	8015NM Prep	
890-452-5	FS27	Total/NA	Solid	8015NM Prep	
890-452-6	FS26	Total/NA	Solid	8015NM Prep	
890-452-7	FS28	Total/NA	Solid	8015NM Prep	
890-452-8	FS29	Total/NA	Solid	8015NM Prep	
890-452-9	FS30	Total/NA	Solid	8015NM Prep	
890-452-10	SW02	Total/NA	Solid	8015NM Prep	
MB 880-1281/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1281/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-452-1 MS	FS22	Total/NA	Solid	8015NM Prep	
890-452-1 MSD	FS22	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-1	FS22	Total/NA	Solid	8015B NM	1281
890-452-2	FS23	Total/NA	Solid	8015B NM	1281
890-452-3	FS24	Total/NA	Solid	8015B NM	1281
890-452-4	FS25	Total/NA	Solid	8015B NM	1281
890-452-5	FS27	Total/NA	Solid	8015B NM	1281
890-452-6	FS26	Total/NA	Solid	8015B NM	1281
890-452-7	FS28	Total/NA	Solid	8015B NM	1281
890-452-8	FS29	Total/NA	Solid	8015B NM	1281
890-452-9	FS30	Total/NA	Solid	8015B NM	1281
890-452-10	SW02	Total/NA	Solid	8015B NM	1281
MB 880-1281/1-A	Method Blank	Total/NA	Solid	8015B NM	1281
LCS 880-1281/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1281
LCSD 880-1281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1281
890-452-1 MS	FS22	Total/NA	Solid	8015B NM	1281
890-452-1 MSD	FS22	Total/NA	Solid	8015B NM	1281

Analysis Batch: 2308

Lab Sample ID 890-452-7	Client Sample ID FS28	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 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

Job ID: 890-452-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

GC Semi VOA

Prep Batch: 2316

Lab Sample ID 890-452-7	Client Sample ID FS28	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
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	

HPLC/IC

Leach Batch: 1544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-3	FS24	Soluble	Solid	DI Leach	
890-452-4	FS25	Soluble	Solid	DI Leach	
MB 880-1544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1568

Lab Sample ID 890-452-3	Client Sample ID FS24	Prep Type Soluble	Solid	Method 300.0	Prep Batch 1544
890-452-4	FS25	Soluble	Solid	300.0	1544
MB 880-1544/1-A	Method Blank	Soluble	Solid	300.0	1544
LCS 880-1544/2-A	Lab Control Sample	Soluble	Solid	300.0	1544
LCSD 880-1544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1544

Leach Batch: 1759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-5	FS27	Soluble	Solid	DI Leach	
890-452-6	FS26	Soluble	Solid	DI Leach	
890-452-7	FS28	Soluble	Solid	DI Leach	
890-452-8	FS29	Soluble	Solid	DI Leach	
890-452-9	FS30	Soluble	Solid	DI Leach	
890-452-10	SW02	Soluble	Solid	DI Leach	
MB 880-1759/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1759/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1759/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-452-9 MS	FS30	Soluble	Solid	DI Leach	
890-452-9 MSD	FS30	Soluble	Solid	DI Leach	

Analysis Batch: 1846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-5	FS27	Soluble	Solid	300.0	1759
890-452-6	FS26	Soluble	Solid	300.0	1759
890-452-7	FS28	Soluble	Solid	300.0	1759
890-452-8	FS29	Soluble	Solid	300.0	1759
890-452-9	FS30	Soluble	Solid	300.0	1759
890-452-10	SW02	Soluble	Solid	300.0	1759
MB 880-1759/1-A	Method Blank	Soluble	Solid	300.0	1759
LCS 880-1759/2-A	Lab Control Sample	Soluble	Solid	300.0	1759
LCSD 880-1759/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1759
890-452-9 MS	FS30	Soluble	Solid	300.0	1759
890-452-9 MSD	FS30	Soluble	Solid	300.0	1759

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-452-1

SDG: Eddy County

HPLC/IC

Leach Batch: 1983

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	890-452-1	FS22	Soluble	Solid	DI Leach	
	MB 880-1983/1-A	Method Blank	Soluble	Solid	DI Leach	
	LCS 880-1983/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
İ	LCSD 880-1983/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2015

Lab Sample ID 890-452-1	Client Sample ID FS22	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 1983
MB 880-1983/1-A	Method Blank	Soluble	Solid	300.0	1983
LCS 880-1983/2-A	Lab Control Sample	Soluble	Solid	300.0	1983
LCSD 880-1983/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1983

Leach Batch: 2318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-2	FS23	Soluble	Solid	DI Leach	
MB 880-2318/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2318/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2318/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-452-2	FS23	Soluble	Solid	300.0	2318
MB 880-2318/1-A	Method Blank	Soluble	Solid	300.0	2318
LCS 880-2318/2-A	Lab Control Sample	Soluble	Solid	300.0	2318
LCSD 880-2318/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2318

Eurofins Xenco, Carlsbad

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Job ID: 890-452-1 SDG: Eddy County

Client Sample ID: FS22

Project/Site: Longview 31-1

Client: WSP USA Inc.

Date Collected: 03/29/21 09:45 Date Received: 03/30/21 08:57

Lab Sample ID: 890-452-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 18:42	AJ	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 14:05	AJ	XM
Soluble	Leach	DI Leach			1983	04/19/21 17:00	SC	XM
Soluble	Analysis	300.0		1	2015	04/19/21 21:41	CH	XM

Lab Sample ID: 890-452-2

Matrix: Solid

Date Collected: 03/29/21 13:45

Client Sample ID: FS23

Date Received: 03/30/21 08:57

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 19:03	AJ	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 15:08	AJ	XM
Soluble	Leach	DI Leach			2318	04/26/21 09:51	SC	XM
Soluble	Analysis	300.0		1	2328	04/26/21 17:00	SC	XM

Client Sample ID: FS24 Lab Sample ID: 890-452-3 **Matrix: Solid**

Date Collected: 03/29/21 13:50

Date Received: 03/30/21 08:57

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 19:23	AJ	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 15:30	AJ	XM
Soluble	Leach	DI Leach			1544	04/08/21 15:31	CH	XM
Soluble	Analysis	300.0		1	1568	04/09/21 12:09	CH	XM

Client Sample ID: FS25 Lab Sample ID: 890-452-4 Date Collected: 03/29/21 13:40

Date Received: 03/30/21 08:57

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 19:44	AJ	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 15:52	AJ	XM
Soluble	Leach	DI Leach			1544	04/08/21 15:31	СН	XM
Soluble	Analysis	300.0		1	1568	04/09/21 12:15	CH	XM

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Chronicle

Job ID: 890-452-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County

Client Sample ID: FS27

Date Received: 03/30/21 08:57

Batch

Batch

Lab Sample ID: 890-452-5 Date Collected: 03/29/21 14:00

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1421	04/07/21 09:26	MR	XM
Total/NA	Analysis	8021B		1	1428	04/07/21 13:26	KL	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 16:13	AJ	XM
Soluble	Leach	DI Leach			1759	04/14/21 08:41	СН	XM
Soluble	Analysis	300.0		1	1846	04/15/21 21:55	SC	XM

Client Sample ID: FS26 Lab Sample ID: 890-452-6 **Matrix: Solid**

Batch

Prepared

Dilution

Date Collected: 03/29/21 13:35 Date Received: 03/30/21 08:57

Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 1421 04/07/21 09:26 MR XM Total/NA 8021B XM Analysis 1428 04/07/21 13:47 KL 1 Total/NA Prep 8015NM Prep 1281 04/03/21 13:15 DM XM Total/NA 8015B NM Analysis 1291 04/04/21 16:35 AJ XM 1 Soluble Leach DI Leach 1759 04/14/21 08:41 CH ΧM Soluble XM Analysis 300.0 1846 04/15/21 22:00 SC 1

Client Sample ID: FS28 Lab Sample ID: 890-452-7

Date Collected: 03/29/21 14:55 Matrix: Solid Date Received: 03/30/21 08:57

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1421	04/07/21 09:26	MR	XM
Total/NA	Analysis	8021B		1	1428	04/07/21 14:07	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 16:27	AJ	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 16:56	AJ	XM
Soluble	Leach	DI Leach			1759	04/14/21 08:41	СН	XM
Soluble	Analysis	300.0		1	1846	04/15/21 22:06	SC	XM

Client Sample ID: FS29 Lab Sample ID: 890-452-8 Date Collected: 03/29/21 14:28

Date Received: 03/30/21 08:57

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1421	04/07/21 09:26	MR	XM
Total/NA	Analysis	8021B		1	1428	04/07/21 14:28	KL	XM
Total/NA	Prep	8015NM Prep			1281	04/03/21 13:15	DM	XM
Total/NA	Analysis	8015B NM		1	1291	04/04/21 17:18	AJ	XM
Soluble	Leach	DI Leach			1759	04/14/21 08:41	CH	XM
Soluble	Analysis	300.0		1	1846	04/15/21 22:12	SC	XM

Eurofins Xenco, Carlsbad

Matrix: Solid

Date Collected: 03/29/21 14:25

Date Received: 03/30/21 08:57

Leach

Leach

Analysis

Analysis

DI Leach

DI Leach

300.0

300.0

Lab Chronicle

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-452-1

SDG: Eddy County

Client Sample ID: FS30

Lab Sample ID: 890-452-9

ΧM

XM

ΧM

XM

Matrix: Solid

Batch Dilution Batch Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 5035 04/07/21 09:26 $\overline{\mathsf{XM}}$ Prep 1421 MR Total/NA 8021B ΧM Analysis 1 1428 04/07/21 14:49 KL Total/NA Prep 8015NM Prep 1281 04/03/21 13:15 DM XM Total/NA Analysis 8015B NM 1 1291 04/04/21 17:40 AJ XM

Client Sample ID: SW02 Lab Sample ID: 890-452-10

1759

1759

04/14/21 08:41 CH

04/14/21 08:41 CH

1846 04/15/21 22:34 SC

1846 04/15/21 22:17 SC

Date Collected: 03/29/21 09:20

Date Received: 03/30/21 08:57

Matrix: Solid

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Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 1506 04/08/21 10:10 MR XM Total/NA 8021B 1508 04/08/21 16:39 AJ ΧM Analysis 1 Total/NA Prep 8015NM Prep 1281 04/03/21 13:15 DM XM Total/NA Analysis 8015B NM 1291 XM 1 04/04/21 18:01 AJ

Laboratory References:

Soluble

Soluble

Soluble

Soluble

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

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-452-1 Project/Site: Longview 31-1 SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-20-21	06-30-21
The following analyte the agency does not		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
	001ENIM Drop	Solid	Total TPH	
8015B NM	8015NM Prep	Solid	IOIAI IPH	

Method Summary

Client: WSP USA Inc. Project/Site: Longview 31-1 Job ID: 890-452-1

SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
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 31-1 Job ID: 890-452-1 SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-452-1	FS22	Solid	03/29/21 09:45	03/30/21 08:57	1 - 1.
890-452-2	FS23	Solid	03/29/21 13:45	03/30/21 08:57	- 1
890-452-3	FS24	Solid	03/29/21 13:50	03/30/21 08:57	- 1
890-452-4	FS25	Solid	03/29/21 13:40	03/30/21 08:57	- 1
890-452-5	FS27	Solid	03/29/21 14:00	03/30/21 08:57	2 - 4
890-452-6	FS26	Solid	03/29/21 13:35	03/30/21 08:57	- 1
890-452-7	FS28	Solid	03/29/21 14:55	03/30/21 08:57	- 1
890-452-8	FS29	Solid	03/29/21 14:28	03/30/21 08:57	- 0.5
890-452-9	FS30	Solid	03/29/21 14:25	03/30/21 08:57	- 0.5
890-452-10	SW02	Solid	03/29/21 09:20	03/30/21 08:57	0 - 4

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Company Name:

W SPUSA

City, State ZIP:

MIDLAND 3300 N

SALDE XI

City, State ZIP: CARLSBAD, NM 58278

STREET

Company Name:

XDW

見いのかのと

Address:

BUENDA VISTA DR

Reporting:Level II Level III PST/UST TRRP Level IV

State of Project

Bill to: (if different

JIM PALEY

Chain of Custody

Work Order No:

13

Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-670 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crasibad, NM (432) 704-5440 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

E lab SAMPLE RECEIPT of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contro Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Relinquished by: (Signature) Jest Story F523 F-52-4075 FS24 SWOOD FS29 FS25 F-030 FS28 Sampler's Name: ANDA Project Location Cooler Custody Seals: Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Project Name: Sample Identification Temperature (°C): Received Intact: F526 £527 (281) FDDY 15054821006 -ondiview 0 200.8 / 6020: Yes (Yes T 762-2329 (60 VTY Temp Blank: SAFAS Š 8 31-1 Matrix N/A SISIS N/A 5 a S CO S (N) S 3/29/27 3/20/20 3/20/21 3/20/21 (é) 3/29/21 3/20/21 3/20/21 15/20/2 3/29/21 3/20/21 Sampled Received by: (Signature) Date Correction Factor: 8 **Total Containers:** 1428 さるりの 8914 1455 TCLP / SPLP 6010: 8RCRA 1425 1335 Ø945 Time Sampled 1240 Julan 1.350 1345 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se 3LP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Wet Ice: Ye Email: jue herouncle 20 wsp. om anna byes a wsp. own Rush: Due Date: Routine Turn Around B-41 1-1.5 200 Depth 7 Q No 3.30-21 0857 Pres. Number of Containers × Date/Time TPH (EPA 80015 Mad) BTEX (EPA 8021B) Chloride (EPA 30000) Relinquished by: (Signature) ANALYSIS REQUEST 890-452 Chain of Custody Deliverables: EDD Received by: (Signature) Ą SiO2 Na Sr TI Sn U V Zn ADaPT 🗆 631 / 245.1 / 7470 None: NO NaOH: Na HNO3: HN TAT starts the day recevied by the lab, if HCL: HL H2S04: H2 MeOH: Me Zn Acetate+ NaOH: Zn Sample Comments **Preservative Codes** Other received by 4:00pm Revised Date 022619 Rev. 2019 1 Date/Time / 7471 : Hg

Program: UST/PST ☐ PRP ☐ Brownfields ☐RRC ☐ Superfund ☐ Work Order Comments

Eurofins Xenco, Carlsbad

Chain of Custody Record

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Environment Testing America

Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199		Nd de J		l ab PM				Carrie	r Trackino	No(s)		COC No.	
Client Information (Sub Contract Lab)	campier			Lab PM Kramer, Jessica	esica			Carrie	Carrier Tracking No(s):	No(s)		COC No: 890-138 1	
	Phone:			jessica kramer@eurofinset	mer@e		com	State	State of Origin: New Mexico			Page: Page 1 of 2	
Company: Eurofins Xenco				Accred NELA	litations R P - Tex		note):					Job #: 890-452-1	
Address 1211 W Florida Ave, ,	Due Date Requested 4/5/2021						/sis	Requested	red			Preservation Codes	odes
City Midland	TAT Requested (days):	/\$):										A - HCL B NaOH C - Zn Acetate	M - Hexane N None O - AsNaO2
State, Zlp: TX, 79701	I							·			77 K 7 W	D Nitric Acid	P Na204S Q - Na2SO3
Phone. 432-704-5440(Tel)	PO#))		irn						25885.A	ıγπ
Email	WO#			arywatenae	Chloric	p rus							
Project Name: Longview 31-1	Project #: 88000203			S07 Y 0 S (49)	EACH						•	004995265496	W pH 4-5 Z - other (specify)
Site:	SSOW#:				D/DI_L	-						Other:	
		<u> </u>	Sample Matrix	로 호 Filtered S m MS/M:	RGFM_28	OD_NM/8						Number (
Sample Identification - Client ID (Lab ID)	Sample Date	Sample (C	(C=Comp, 0=waste/oil, G=grab) BT=Tissue, A=/	Field F	300_OF								Special Instructions/Note:
	M		Preservation Code:	X		taus.							
FS22 (890-452-1)	3/29/21		Solid	O.	×	×						_*	
FS23 (890-452-2)	3/29/21	13 45 Mountain	Solid	ā	×	×						_	
FS24 (890-452-3)	3/29/21	13 50 Mountain	Solid	ā.	×	×						-	***************************************
FS25 (890-452-4)	3/29/21	13 40 Mountain	Solid		×	×			_	4		4	
FS27 (890-452-5)	3/29/21	14 00 Mountain	Solid	ā.	×	×							
FS26 (890-452-6)	3/29/21	13 35 Mountain	Solid	ā	×	×							
FS28 (890-452-7)	3/29/21	14 55 Mountain	Solid	₫.	×	×					0.000000000		
FS29 (890-452-8)	3/29/21	14 28 Mountain	Solid	ā.	×	×							
FS30 (880-452-9)	3/29/21	14 25 Mountain	Solid	ā	×	×						-	
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.) places the ownership being analyzed the saturn the signed Chain of	of method analy amples must be s of Custody attesti	te & accreditation on this ped back to the said complicating to said complicating to said complicating the said complication the sai	ompliance upo Eurofins Xenc nce to Eurofins	on out sut to LLC lab s Xenco L	contract laboratory or otl	oratories. This	sample shi s will be pro	pment is f vided. Ar	orwarded y changes	ınder cha to accrec	n-of-custody If the itation status should	laboratory does not
Possible Hazard Identification Unconfirmed				S	ample L	Sample Disposal ((A fee may	be asses	assessed if san Disposal By Lab	amples	are reta	may be assessed if samples are retained longer the	than 1 month)
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2		Ş	pecial Ir	structions	Special Instructions/QC Requirements	ements.					
Empty Kit Relinquished by		Date		Time					Method c	Method of Shipment:			
Relinquished by Gue Club 3.204	Date/Time:		Company	У	Received by	11.7	me	ŧ.		Date/Time;	2/1/2°	1 21/1/p.	Company
	Date/Time:		Company	٧	Received by					Date/Time:	ë	400	Company
Relinquished by	Date/Time:	***************************************	Company	¥	Received by	ed by				Date/Time:	ē		Company
Custody Seals Intact. Custody Seal No					Cooler	Cooler Temperature(s) °C		and Other Remarks.	.s				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-452-1
SDG Number: Eddy County

Login Number: 452 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-452-1 SDG Number: Eddy County

Login Number: 452 **List Source: Eurofins Midland** List Creation: 03/30/21 02:44 PM 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	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-444-1

Laboratory Sample Delivery Group: Eddy County NM

Client Project/Site: Longview 31-1

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 4/12/2021 5:55:28 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Total Access

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www.eurofinsus.com/Env

Released to Imaging: 9/1/2021 10:15:26 AM

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **PQL**

Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-444-1

SDG: Eddy County NM

Job ID: 890-444-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-444-1

Receipt

The sample was received on 3/26/2021 1:06 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SW01 (890-444-1).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-444-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Client Sample ID: SW01

Date Collected: 03/25/21 15:42 Date Received: 03/26/21 01:06

Sample Depth: 0 - 3

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
							04/07/04 40 45	04/08/21 12:51	
4-Bromofluorobenzene (Surr)	106		70 - 130				04/07/21 12:45	04/06/21 12.51	,
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	106 101		70 - 130 70 - 130				04/07/21 12:45	04/08/21 12:51	1
1,4-Difluorobenzene (Surr)	101	RO) (GC)							1
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	101 ge Organics (DI	RO) (GC) Qualifier		MDL	Unit	D			n 1 Dil Fac
(/	101 ge Organics (DI	Qualifier	70 - 130	MDL	Unit mg/Kg	<u>D</u>	04/07/21 12:45	04/08/21 12:51	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI	Qualifier U	70 ₋ 130	MDL		<u>D</u>	04/07/21 12:45 Prepared	04/08/21 12:51 Analyzed	Dill Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (DI Result <49.8	Qualifier U	70 - 130 RL 49.8	MDL	mg/Kg	<u> </u>	04/07/21 12:45 Prepared 04/06/21 13:35	04/08/21 12:51 Analyzed 04/07/21 03:51	1
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over	101 ge Organics (DI Result <49.8	Qualifier U U U	70 - 130 RL 49.8	MDL	mg/Kg	<u>D</u>	04/07/21 12:45 Prepared 04/06/21 13:35 04/06/21 13:35	Analyzed 04/07/21 03:51	1
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over C10-C28)	701 ge Organics (DI Result <49.8 <49.8 <49.8	Qualifier U U U U	70 - 130 RL 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/07/21 12:45 Prepared 04/06/21 13:35 04/06/21 13:35	Analyzed 04/07/21 03:51 04/07/21 03:51 04/07/21 03:51	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Total TPH Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	701 ge Organics (DI Result <49.8 <49.8 <49.8	Qualifier U U U U	70 - 130 RL 49.8 49.8 49.8 49.8	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 04/06/21 13:35 04/06/21 13:35 04/06/21 13:35	Analyzed 04/07/21 03:51 04/07/21 03:51 04/07/21 03:51 04/07/21 03:51	1 1

RL

5.05

MDL Unit

mg/Kg

D

Prepared

Analyzed

04/08/21 18:26

Result Qualifier

502

Eurofins Xenco, Carlsbad

Dil Fac

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-444-1

Project/Site: Longview 31-1

SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-444-1	SW01	106	101	
LCS 880-1434/1-A	Lab Control Sample	113	107	
LCS 880-1448/1-A	Lab Control Sample	105	99	
LCS 880-1560/1-A	Lab Control Sample	91	100	
LCSD 880-1434/2-A	Lab Control Sample Dup	95	100	
LCSD 880-1448/2-A	Lab Control Sample Dup	103	98	
LCSD 880-1560/2-A	Lab Control Sample Dup	97	100	
MB 880-1434/5-A	Method Blank	101	101	
MB 880-1448/5-A	Method Blank	100	96	
MB 880-1560/5-A	Method Blank	102	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-444-1	SW01	89	81
LCS 880-1378/2-A	Lab Control Sample	105	91
LCSD 880-1378/3-A	Lab Control Sample Dup	104	91
MB 880-1378/1-A	Method Blank	104	100

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1434/5-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1434

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 11:05	04/07/21 18:50	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 11:05	04/07/21 18:50	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 11:05	04/07/21 18:50	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/07/21 11:0	5 04/07/21 18:50	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/07/21 11:0	5 04/07/21 18:50	1

Lab Sample ID: LCS 880-1434/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 1437

Prep Type: Total/NA

Prep Batch: 1434

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1167		mg/Kg	_	117	70 - 130	
Ethylbenzene	0.100	0.1119		mg/Kg		112	70 - 130	
Toluene	0.100	0.1086		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2255		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1195		mg/Kg		119	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-1434/2-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1434

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08693		mg/Kg		87	70 - 130	29	35
Ethylbenzene	0.100	0.08614		mg/Kg		86	70 - 130	26	35
Toluene	0.100	0.08347		mg/Kg		83	70 - 130	26	35
m-Xylene & p-Xylene	0.200	0.1683		mg/Kg		84	70 - 130	29	35
o-Xylene	0.100	0.08392		mg/Kg		84	70 - 130	35	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1.4-Difluorobenzene (Surr)	100	70 ₋ 130

Lab Sample ID: MB 880-1448/5-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1448

Analyte Result Qualifier MDL Unit Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 04/07/21 12:45 04/08/21 05:41

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Job ID: 890-444-1 Client: WSP USA Inc. Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: MB 880-1448/5-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1448

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 05:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 05:41	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 05:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/07/21 12:45	04/08/21 05:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/07/21 12:45	04/08/21 05:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/07/21 12:45	04/08/21 05:41	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/07/21 12:4	5 04/08/21 05:41	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/07/21 12:4	5 04/08/21 05:41	1

Lab Sample ID: LCS 880-1448/1-A

Matrix: Solid

Analysis Batch: 1437

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

Prep Batch: 1448

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07615 mg/Kg 70 - 130 76 0.100 Ethylbenzene 0.08662 87 70 - 130 mg/Kg Toluene 0.100 0.07745 mg/Kg 77 70 - 130 70 - 130 m-Xylene & p-Xylene 0.200 0.1673 mg/Kg 84 o-Xylene 0.100 0.08750 mg/Kg 88 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-1448/2-A

Matrix: Solid

Analysis Batch: 1437

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1448

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07244		mg/Kg		72	70 - 130	5	35
Ethylbenzene	0.100	0.08685		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.07509		mg/Kg		75	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1680		mg/Kg		84	70 - 130	0	35
o-Xylene	0.100	0.08703		mg/Kg		87	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-1560/5-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1560

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Analyte	Result	Qualifier	RL	MDL	Unit	ı	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		_	04/08/21 14:00	04/09/21 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			04/08/21 14:00	04/09/21 12:12	1

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Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: MB 880-1560/5-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1560

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/08/21 14:00	04/09/21 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/08/21 14:00	04/09/21 12:12	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/08/21 14:00	04/09/21 12:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/08/21 14:00	04/09/21 12:12	1

Lab Sample ID: LCS 880-1560/1-A

Matrix: Solid

Analysis Batch: 1562

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1560

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09450		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09135		mg/Kg		91	70 - 130	
Toluene	0.100	0.09084		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1748		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.08675		mg/Kg		87	70 - 130	

LCS LCS

Surrogate	%Recovery Quali	ifier Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-1560/2-A

Matrix: Solid

Analysis Batch: 1562

Client Sample	ID:	Lab	Control	Sample	Dup

Prep Type: Total/NA

Prep Batch: 1560

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09117		mg/Kg		91	70 - 130	4	35
Ethylbenzene	0.100	0.09029		mg/Kg		90	70 - 130	1	35
Toluene	0.100	0.08846		mg/Kg		88	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	1	35
o-Xylene	0.100	0.08830		mg/Kg		88	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1.4-Difluorobenzene (Surr)	100		70 - 130

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

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

Lab Sample ID: MB 880-1378/1-A

Analysis Batch: 1362

Matrix: Solid

Client	Sample	ID:	Method	Blan	k

Prep Type: Total/NA

Prep Batch: 1378

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1
(GRO)-C6-C10									
Total TPH	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/06/21 13:35	04/06/21 21:27	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/06/21 13:35	04/06/21 21:27	1
o-Terphenyl	100		70 - 130	04/06/21 13:35	04/06/21 21:27	1

Lab Sample ID: LCS 880-1378/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 1362

Analysis Batch: 1362							Prep Batch: 1378		
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1146		mg/Kg		115	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	940.9		ma/Ka		94	70 - 130		

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-1378/3-A

Matrix: Solid

Analysis Batch: 1362

Client Sample	ID:	Lab	Control	Sample	Dup
---------------	-----	-----	---------	--------	-----

Prep Type: Total/NA Prep Batch: 1378

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1181		mg/Kg		118	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	934.7		mg/Kg		93	70 - 130	1	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1382/1-A

Matrix: Solid

Analysis Batch: 1522

Client 9	Sample	ID:	Method	Blank

Prep Type: Soluble

MB MB Prepared Analyte Result Qualifier RL MDL Unit D Dil Fac Analyzed Chloride <5.00 U 5.00 mg/Kg 04/08/21 16:18

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1382/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid Analysis Batch: 1522

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 263.3 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-1382/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 1522

Chloride

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

263.2

mg/Kg

105

90 - 110

250

Eurofins Xenco, Carlsbad

Prep Type: Soluble

0

QC Association Summary

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

GC VOA

Prep Batch: 1434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1434/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1434/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1434/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-444-1	SW01	Total/NA	Solid	8021B	1448
MB 880-1434/5-A	Method Blank	Total/NA	Solid	8021B	1434
MB 880-1448/5-A	Method Blank	Total/NA	Solid	8021B	1448
LCS 880-1434/1-A	Lab Control Sample	Total/NA	Solid	8021B	1434
LCS 880-1448/1-A	Lab Control Sample	Total/NA	Solid	8021B	1448
LCSD 880-1434/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1434
LCSD 880-1448/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1448

Prep Batch: 1448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-444-1	SW01	Total/NA	Solid	5035	
MB 880-1448/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1448/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1448/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 1560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1560/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1560/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1560/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1560/5-A	Method Blank	Total/NA	Solid	8021B	1560
LCS 880-1560/1-A	Lab Control Sample	Total/NA	Solid	8021B	1560
LCSD 880-1560/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1560

GC Semi VOA

Analysis Batch: 1362

Lab Sample ID 890-444-1	Client Sample ID SW01	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch
MB 880-1378/1-A	Method Blank	Total/NA	Solid	8015B NM	1378
LCS 880-1378/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1378
LCSD 880-1378/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1378

Prep Batch: 1378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-444-1	SW01	Total/NA	Solid	8015NM Prep
MB 880-1378/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-1378/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-1378/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

QC Association Summary

Client: WSP USA Inc.

Project/Site: Longview 31-1

SDG: Eddy County NM

HPLC/IC

Leach Batch: 1382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-444-1	SW01	Soluble	Solid	DI Leach	
MB 880-1382/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1382/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1382/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-444-1	SW01	Soluble	Solid	300.0	1382
MB 880-1382/1-A	Method Blank	Soluble	Solid	300.0	1382
LCS 880-1382/2-A	Lab Control Sample	Soluble	Solid	300.0	1382
LCSD 880-1382/3-	A Lab Control Sample Dup	Soluble	Solid	300.0	1382

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Lab Chronicle

Client: WSP USA Inc.

Project/Site: Longview 31-1

Job ID: 890-444-1

SDG: Eddy County NM

Client Sample ID: SW01

Lab Sample ID: 890-444-1

Matrix: Solid

Date Collected: 03/25/21 15:42 Date Received: 03/26/21 01:06

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1448	04/07/21 12:45	KL	XM
Total/NA	Analysis	8021B		1	1437	04/08/21 12:51	KL	XM
Total/NA	Prep	8015NM Prep			1378	04/06/21 13:35	DM	XM
Total/NA	Analysis	8015B NM		1	1362	04/07/21 03:51	AJ	XM
Soluble	Leach	DI Leach			1382	04/06/21 14:32	CH	XM
Soluble	Analysis	300.0		1	1522	04/08/21 18:26	WP	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Longview 31-1

SDG: Eddy County NM

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	LAP	T104704400-20-21	06-30-21	
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh	
the agency does not of		,	iod by the governing addictity. This list the	ay include analytes for wi	
the agency does not off Analysis Method		Matrix	Analyte	ay include analytes for wi	
9 ,	fer certification.	•	, , ,		

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Method Summary

Client: WSP USA Inc. Job ID: 890-444-1 Project/Site: Longview 31-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
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 31-1

Job ID: 890-444-1 SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-444-1	SW01	Solid	03/25/21 15:42	03/26/21 01:06	0 - 3

Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	S 325/27 1542 & -3	Quote #: Quote #: Quote #: Correction Factor: - 5 . Total Containers: Date Time Sampled Rush: Que Date: (Yes) Rush: (Yes) Rush: (Yes) Total Containers: Date Time Sampled Dep	JESEPH HERMAND
Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mr RRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl om client company to Xenco, its affiliates and subcontractors. It assigns standard terms and any losses or expenses incurred by the client if such losses are due to circumstances beyond a subsantial to Xenco, but not amply red. These terms will be emoliced unless previously negoting the client if such losses are due to circumstances beyond a subsantial to Xenco, but not amply red. These terms will be emoliced unless previously negoting the complex of these terms will be emoliced unless previously negoting the complex of these terms will be emoliced unless previously negoting the complex of the comple			Chain of Custody
Mo Ni Se Ag TI U 1631/245.1/7470 77471Hg Mo Ni Se Ag TI U 1631/245.1/7470 77471Hg gns standard terms and conditions o circumstances beyond the control runess previously negotiated. y: (Signature) Received by: (Signature) Date/Time		TA Na HO HO NA	Work Order No: Nover State of Project: Reporting: Level

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-444-1

SDG Number: Eddy County NM

List Source: Eurofins Carlsbad

Login Number: 444 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-444-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

List Creation: 04/06/21 07:56 AM

Login Number: 444 List Number: 2

Creator: Kramer, Jessica

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

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Page 133 of 134

Incident ID	nAPP2107743055
District RP	
Facility ID	
Application ID	

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 is	tems must be included in the closure report.
☑ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date: 6/1/2021
_{email:} jim.raley.dvn.com	Telephone: 575-689-7597
OCD Only	
Received by: Robert Hamlet	Date:9/1/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: 9/1/2021
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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

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

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

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

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

CONDITIONS

Action 30039

CONDITIONS

On contract	OGRID:
Operator:	
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	30039
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2107743055 LONGVIEW FEDERAL 31 #001H, thank you. This closure is approved.	9/1/2021