

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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

NOV 24 2014 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1432936692 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	RKI E&P, LLC <i>246289</i>	Contact	Zack Laird
Address	210 Park Ave. - Ste. 900, OKC, OK 73102	Telephone No.	405-742-2696
Facility Name:	Santa Fe Federal 8 SWD	Facility Type :	SWD
Surface Owner	Federal	Mineral Owner	NA
		API No.	30-015-27126

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	35	22S	28E		760 FNL		460FEL	Eddy

Latitude: 32.3544216423605 Longitude: -104.05142600431

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	1225 Bbls	Volume Recovered	1170 Bbls
Source of Release	Injection line swedge	Date and Hour of Occurrence	11/22/14 - prior to 1000hrs MT	Date and Hour of Discovery	11/22/14 - 1000hrs MT
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Heather Patterson - NM OCD (Voicemail) Sol Hughes - BLM (Discussed Spill)		
By Whom?	Zack Laird - Sr. EHS Manager	Date and Hour	11/24/14 - 1130hrs (CT)		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

The injection line running from the triplex pump to the wellhead developed a leak at a swedge that connects a 90 degree elbow to the 2 7/8" flow line. The threads in the swedge connection broke and allowed the leak to occur, vibration is thought to be the cause of the swedge failure. The injection line is thought to be the original from 1999, RKI rebuilt nearly all surface facilities upon acquiring this SWD in 2008, but the injection line was not replaced or rebuilt.

Upon discovery of the spill, the triplex pump was shut down and water tanks were diverted to a different disposal. Four (4) vac trucks were dispatched to recover free fluids. Allowing location to dry out now, will delineate potential salt contamination and determine remedial plan.

Describe Area Affected and Cleanup Action Taken.*

All fluid remained on SWD pad (berm was in place around pad), 1170/1225 Bbls spilled were recovered.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Zack Laird

Title: Sr. EHS Manager

E-mail Address: ZLaird@rkixp.com

Date: 11/24/14

Phone: 405-987-2213

Approved by Environmental Specialist:

Approval Date: 11/24/14

Expiration Date: NA

Conditions of Approval:

Attached ☐

Remediation per O.C.D. Rules & Guidelines

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 12/24/14

2RP-2625

* Attach Additional Sheets If Necessary

Incident ID	nAB1432936692
District RP	2RP-2625
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAB1432936692
District RP	2RP-2625
Facility ID	
Application ID	

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

Printed Name: Jim Raley

Title: Environmental Professional

Signature: _____

Date: 8/31/2021

email: jim.raley@dvn.com

Telephone: 575-689-7597

OCD Only

Received by: _____

Date: _____

Incident ID	nAB1432936692
District RP	2RP-2625
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 items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jim Raley

Title: Environmental Professional

Signature: _____



Date: 8/31/2021

email: jim.raley@dvn.com

Telephone: 575-689-7597

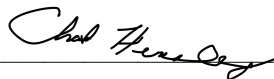
OCD Only

Received by: Chad Hensley

Date: 10/01/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____



Date: 10/01/2021

Printed Name: Chad Hensley

Title: Environmental Specialist Advanced



WSP USA

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

August 26, 2021

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

**RE: Closure Request
Santa Fe #8
Incident Numbers nHMP1407233282, nAB1432936692, nAB1836158635
Eddy County, New Mexico
WPX Energy Permian, LLC**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of WPX Energy Permian, Inc. (WPX), presents the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Santa Fe #8 (Site) located in Unit A, Section 35, Township 22 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following three releases of crude oil and produced water at the Site. Based on the excavation activities and results of confirmation soil sampling, WPX is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Numbers nHMP1407233282, nAB1432936692 and nAB1836158635.

RELEASE BACKGROUND

Incident Number nHMP1407233282

On February 5, 2014, a water pump failed, resulting in the release of approximately 25 barrels (bbls) of produced water into the lined secondary containment and spilled out onto the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 23 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on February 21, 2014 and was subsequently assigned Incident Number nHMP1407233282.

Incident Number nAB1432936692

On November 22, 2014, threads in a swedge connection to an injection line broke, resulting in the release of approximately 1,225 bbls of produced water to the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 1,170 bbls of produced water. WPX reported the release to the NMOCD on a Form C-141 on November 24, 2014 and was subsequently assigned Incident Number nAB1432936692.

Incident Number nAB1836158635

On October 31, 2018, an injection pump failed causing the production tanks to overflow, resulting in the release of approximately 5 bbls of crude oil and 615 bbls of produced water into the lined secondary containment and spilled out onto the well pad surface. The lined containment overfilled and about 80 bbls of fluid impacted the well pad surface. WPX verified that there was no visual evidence of a breach in the liner. Vacuum trucks were immediately dispatched and recovered approximately 5 bbls of crude oil and 605 bbls of produced water. WPX reported the release to the NMOCD on a Form C-141 on November 12, 2018 and was subsequently assigned Incident Number nAB1836158635.

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 55 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 C-04417, located approximately 0.79 miles southwest of the Site. NMOSE well C-04417 was drilled by WPX 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 48 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 an intermittent riverine, located approximately 1,015 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)



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

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

From July 19, 2021 to July 26, 2021, WSP personnel was onsite to oversee excavation activities within the subject release area. Prior to initiating excavation activities onsite, WSP reviewed and verified the Form C-141 incident description (release source and release location) with visual soil impacts and confirmed that the release was contained to the well pad. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is presented on Figure 2.

Excavation of impacted soil was directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. When field screening indicated compliance with Closure Criteria, 5-point composite confirmation soil samples (FS01 through FS65 and SW01 through SW10) were collected from the excavation area. Composite floor samples FS01 through FS06 in the excavation included soil from the sidewalls and all composite soil samples represented, at most, 200 square feet. The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

During the duration of remediation activities, approximately 1,900 cubic yards of impacted soil were removed from the excavation area and transported to the R360 Halfway Facility in Hobbs, New Mexico for disposal under WPX-approved manifests. The excavation area measured a total of approximately 12,900 square feet in area and ranged in depth from approximately 1-foot to 4 feet bgs. The excavation area and soil sample locations are depicted on Figure 2. Photographic documentation was conducted throughout remediation activities and is presented in Attachment 2.

Laboratory analytical results for soil samples FS01 through FS65 and SW01 through SW10 indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria.



DELINEATION ACTIVITIES

On July 26, 2021, WSP personnel conducted delineation activities to define the periphery of horizontal impacts. WSP advanced five potholes (PH01 through PH05) around the subject release extent. Two soil samples were collected at approximately 0.5 feet bgs and 1 foot bgs at each pothole location. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons. The delineation soil samples were collected, handled, and analyzed as previously described. Field screening results and observations for the boreholes were recorded on lithologic/soil sampling logs and are presented in Attachment 3. The pothole sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and reclamation standard.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results of all final excavation confirmation soil samples indicated compliance with the Closure Criteria. Laboratory analytical results from the delineation soil samples (PH01 through PH05) and excavation soil samples (FS02, FS04, FS06, FS07, SW01 and SW02) defines the periphery of horizontal impact of the subject release to the north, east, south and west to 600 mg/kg chloride or less. Laboratory analytical results are summarized in Table 1. Complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

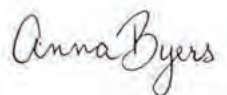
WSP and WPX believe these remedial actions are protective of human health, the environment, and groundwater. Based on the laboratory analytical results of all final excavation confirmation and delineation soil samples, WPX is requesting closure of Incident Numbers nHMP1407233282, nAB1432936692, nAB1836158635. Upon approval of this closure request, WPX will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

WSP and WPX believe these remedial actions are protective of human health, the environment, and groundwater. As such, WPX respectfully requests NFA for Incident Number nHMP1407233282, nAB1432936692, nAB1836158635.

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

Sincerely,

WSP USA Inc.



Anna Byers
Consultant, Geologist



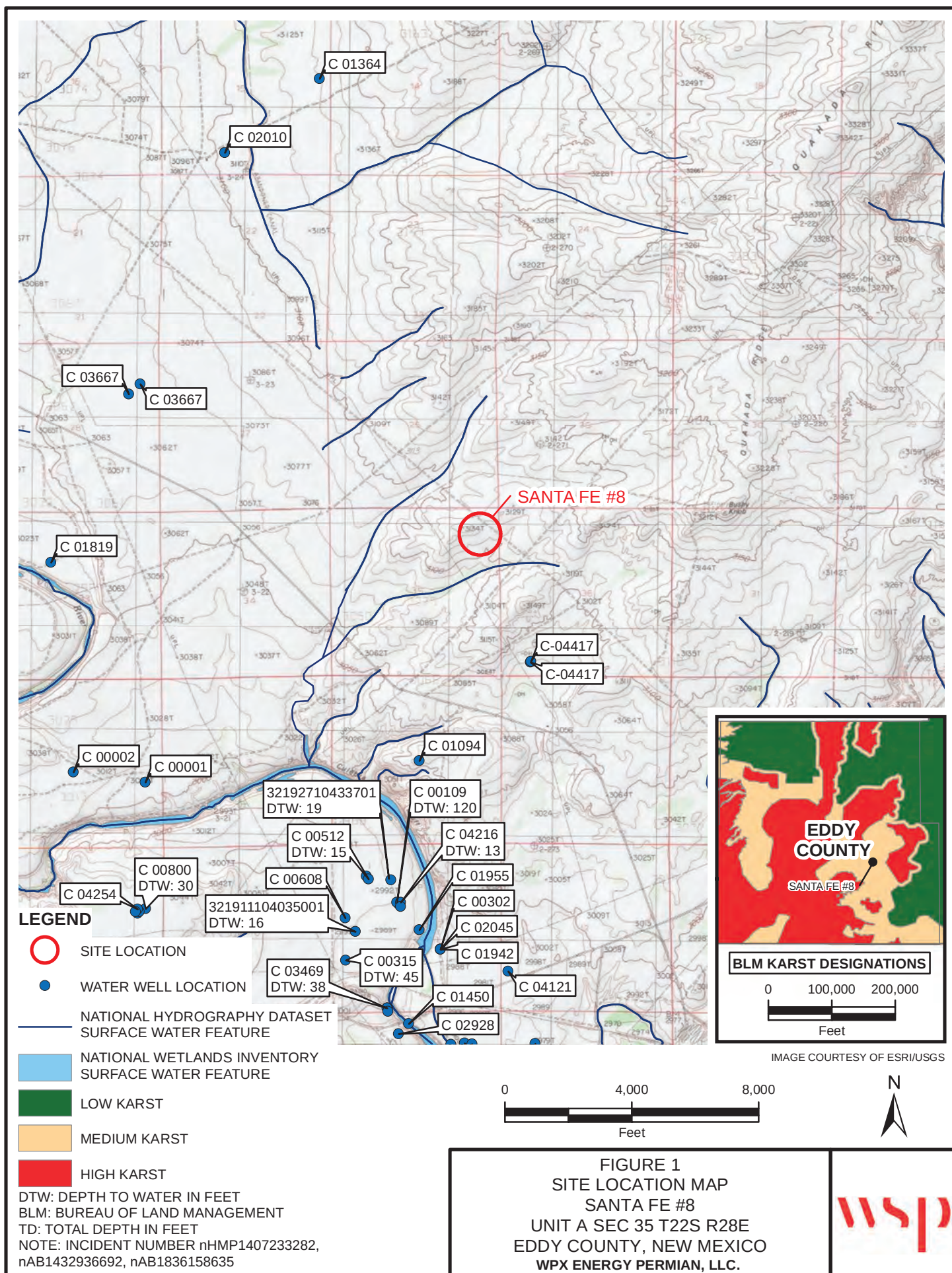
Daniel R. Moir, P.G.
Lead Consultant, Geologist

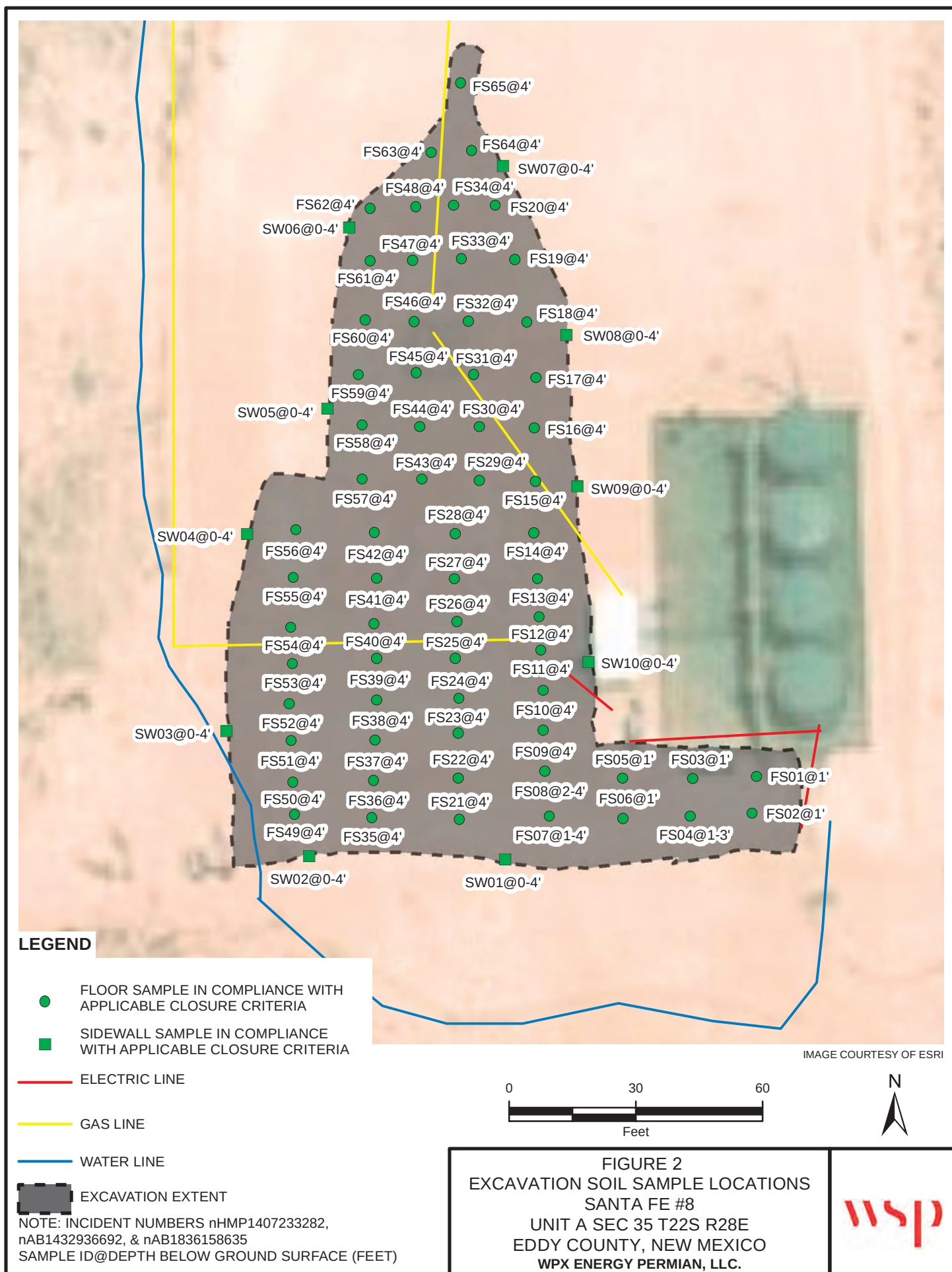
cc: Lynda Laumbach, Devon
Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Figure 2 Excavation Samples Location Map
Figure 3 Delineation Samples Location Map
Table 1 Soil Analytical Results Table
Attachment 1 Referenced Well Record
Attachment 2 Photographic Log
Attachment 3 Lithologic Soil Sampling Logs
Attachment 4 Analytical Reports

FIGURES





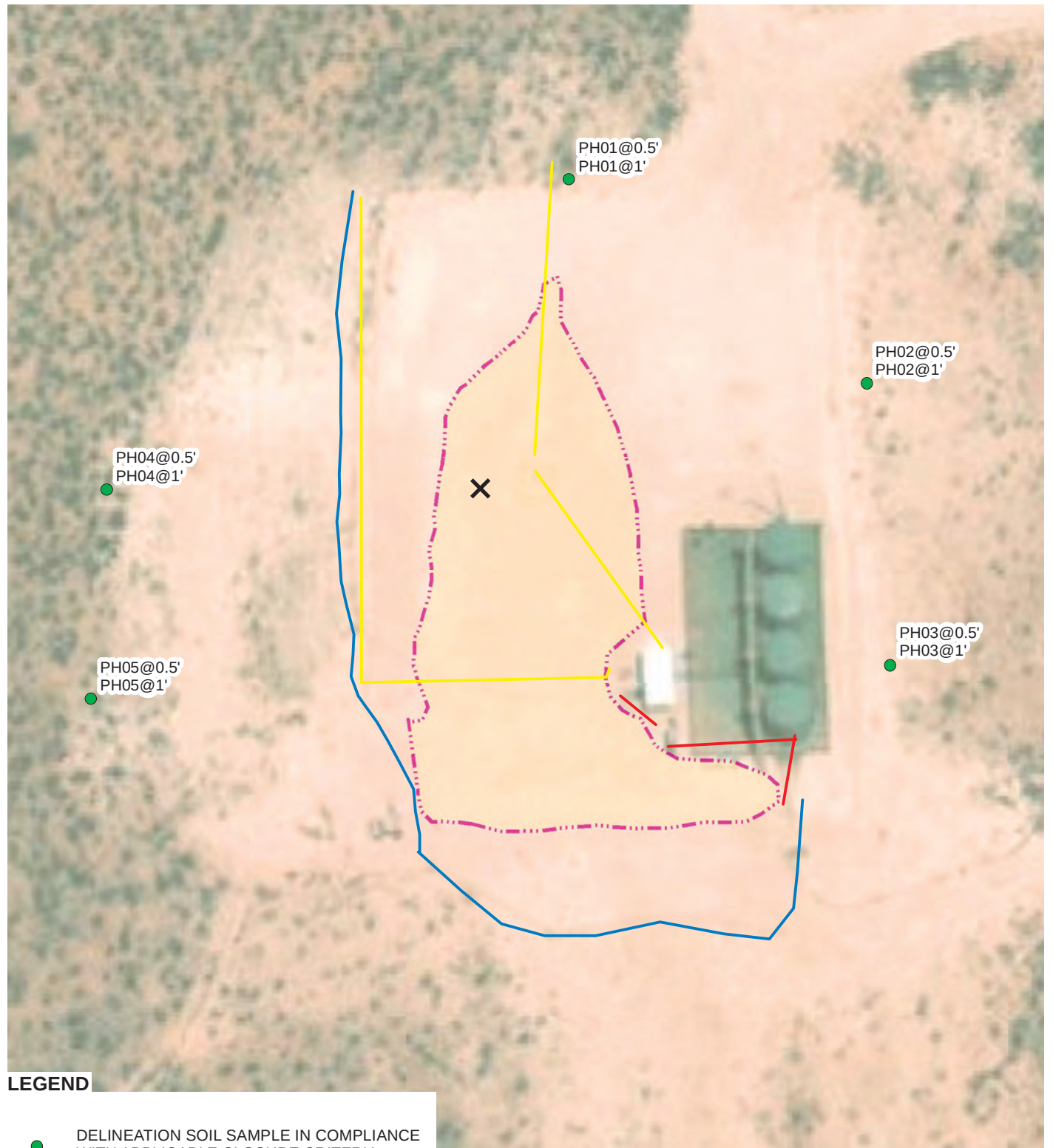


IMAGE COURTESY OF ESRI

LEGEND

- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- WATER LINE
- RELEASE EXTENT

NOTE: INCIDENT NUMBERS nHMP1407233282,
nAB1432936692, & nAB1836158635
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

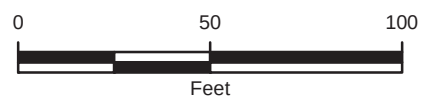


FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
SANTA FE #8
UNIT A SEC 35 T22S R28E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC.



P:\WPX-Devon\GIS\MXD\034821008_SANTA FE #8\034821008_FIG03_DELINEATION_1_2021.mxd

TABLES

Table 1

Soil Analytical Results

Santa Fe #8

Incident Numbers: nHMP140723282, nAB1432936692, nAB1836158635

Eddy County, New Mexico

WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)										
Excavation Samples										
SW01	07/26/2021	0 - 4	<0.00199	0.327	<50.0	<50.0	<50.0	<50.0	<50.0	201
SW02	07/26/2021	0 - 4	<0.00200	0.0775	<49.9	<49.9	<49.9	<49.9	<49.9	444
SW03	07/26/2021	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,060
SW04	07/26/2021	0 - 4	0.00272	0.0285	<50.0	<50.0	<50.0	<50.0	<50.0	1,660
SW05	07/26/2021	0 - 4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,990
SW06	07/26/2021	0 - 4	0.00217	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	772
SW07	07/26/2021	0 - 4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	2,160
SW08	07/26/2021	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,170
SW09	07/26/2021	0 - 4	<0.00200	0.00635	<50.0	<50.0	<50.0	<50.0	<50.0	906
SW10	07/26/2021	0 - 4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	3,070
FS01	07/26/2021	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	136
FS02	07/26/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	107
FS03	07/26/2021	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	140
FS04	07/26/2021	1 - 3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	85.8
FS05	07/26/2021	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	91.5
FS06	07/26/2021	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	124
FS07	07/26/2021	1 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	132

Table 1

Soil Analytical Results

Santa Fe #8

Incident Numbers: nHMP140723282, nAB1432936692, nAB1836158635

Eddy County, New Mexico

WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
FS08	07/26/2021	2 - 4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	157
FS09	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,390
FS10	07/26/2021	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	3,810
FS11	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,480
FS12	07/26/2021	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	2,710
FS13	07/26/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,240
FS14	07/26/2021	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	1,660
FS15	07/26/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,420
FS16	07/26/2021	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,470
FS17	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,140
FS18	07/26/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	2,500
FS19	07/26/2021	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	2,980
FS20	07/26/2021	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	1,520
FS21	07/26/2021	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	336
FS22	07/26/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,680
FS23	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6,110
FS24	07/26/2021	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	954
FS25	07/26/2021	4	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	3,860

Table 1

Soil Analytical Results

Santa Fe #8

Incident Numbers: nHMP140723282, nAB1432936692, nAB1836158635

Eddy County, New Mexico

WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)										
FS26	07/26/2021	4	<0.00201	50	NE	NE	NE	1,000	2,500	10,000
FS27	07/26/2021	4	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	2,230
FS28	07/26/2021	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,200
FS29	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,280
FS30	07/26/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,440
FS31	07/26/2021	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	2,880
FS32	07/26/2021	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	5,320
FS33	07/26/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,840
FS34	07/26/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	4,800
FS35	07/26/2021	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	774
FS36	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	761
FS37	07/26/2021	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,010
FS38	07/26/2021	4	<0.00199	0.00410	<49.9	<49.9	<49.9	<49.9	<49.9	1,790
FS39	07/26/2021	4	<0.00200	0.00567	<50.0	<50.0	<50.0	<50.0	<50.0	1,260
FS40	07/26/2021	4	<0.00199	0.0375	<50.0	<50.0	<50.0	<50.0	<50.0	3,810
FS41	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	63.7
FS42	07/26/2021	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	3,220
FS43	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,960
										6,690

Table 1

Soil Analytical Results

Santa Fe #8

Incident Numbers: nHMP140723282, nAB1432936692, nAB1836158635

Eddy County, New Mexico

WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)										
FS44	07/26/2021	4	<0.00200	50	NE	NE	NE	1,000	2,500	10,000
FS45	07/26/2021	4	<0.00201	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8,040
FS46	07/26/2021	4	<0.00202	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	6,830
FS47	07/26/2021	4	<0.00200	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	4,320
FS48	07/26/2021	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,100
FS49	07/26/2021	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	446
FS50	07/26/2021	4	<0.00199	0.0167	<50.0	<50.0	<50.0	<50.0	<50.0	2,910
FS51	07/26/2021	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	3,260
FS52	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,300
FS53	07/26/2021	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	1,360
FS54	07/26/2021	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,350
FS55	07/26/2021	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	1,650
FS56	07/26/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,150
FS57	07/26/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	767
FS58	07/26/2021	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	879
FS59	07/26/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,310
FS60	07/26/2021	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	2,840
FS61	07/26/2021	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	5,400
FS61	07/26/2021	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	4,030

Table 1

Soil Analytical Results

Santa Fe #8

Incident Numbers: nHMP140723282, nAB1432936692, nAB1836158635

Eddy County, New Mexico

WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)										
FS62	07/26/2021	4	<0.00201	50	NE	NE	NE	1,000	2,500	10,000
FS63	07/26/2021	4	<0.00199	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,970
FS64	07/26/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	850
FS65	07/26/2021	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	2,600
Delineation Samples										
PH01	07/26/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	43.0
PH01	07/26/2021	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	55.5
PH02	07/26/2021	0.5	<0.00198	0.00943	<49.9	<49.9	<49.9	<49.9	<49.9	291
PH02	07/26/2021	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	237
PH03	07/26/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	161
PH03	07/26/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	186
PH04	07/26/2021	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	16.2
PH04	07/26/2021	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	14.4
PH05	07/26/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	12.0
PH05	07/26/2021	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	16.9

Notes

ft - feet/foot
mg/kg - milligrams per kilograms
BTX - 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
* - indicates reclamation standard apply

ATTACHMENT 1: REFERENCED WELL RECORD



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. Well Tag ID Not Issued		OSE FILE NO(S). C 04417			
	WELL OWNER NAME(S) WPX Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Drive				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 20	SECONDS 35.4 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -104	02	47.1 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE M-36-22S-28E; Pinnacle State #25								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1789		NAME OF LICENSED DRILLER Mark Mumby			NAME OF WELL DRILLING COMPANY HRL Compliance Solutions		
	DRILLING STARTED 3/31/2020		DRILLING ENDED 3/31/2020		DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Water was not encountered	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) Water was not present in the well after 48-hour		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY:					Hollow Stem Auger		
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6.25	Blank PVC	Flush Thread	2.0	0.154	0.010
	45	55	6.25	Factory Slotted PVC Screen	Flush Thread	2.0	0.154	0.010
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				No Annular Seal Material or Gravel Pack	None			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	55	55	Silt/Sand with Interbedded caliche	Y ✓ N	0.00
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY: Water Not Encountered					TOTAL ESTIMATED WELL YIELD (gpm):
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Well was drilled to determine depth to groundwater in the area. The well was a temporary well. The well was monitored for the presence of water 48-hours after drilling was complete; water was not encountered in the well at this time. The well was subsequently abandoned on 4/3/2020.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Kalvin (Kelly) Padilla					
6. 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.					
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	SANTA FE #8 Eddy County, NM	TE034821008
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Photo No.	Date	
1	July 19, 2021	
Excavation activities south of the decommissioned tank battery containment facing west		 A yellow excavator is positioned on a dirt mound at a construction site. The ground is reddish-brown soil. In the background, there is a flat landscape with some green vegetation under a blue sky with scattered clouds.

Photo No.	Date	
2	July 21, 2021	
Excavation activities south of the decommissioned tank battery containment facing west		 A wide view of an excavated area showing reddish-brown soil. A yellow bulldozer is partially visible on the right side of the frame. The background shows a flat landscape with some green vegetation under a blue sky with scattered clouds.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	SANTA FE #8 Eddy County, NM	TE034821008
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Photo No.	Date	
3	July 21, 2021	
Excavation activities in the southern pad area facing southeast		 A wide-angle photograph of a large, open excavation site. The ground is reddish-brown soil, heavily disturbed with numerous tire tracks and mounds of earth. In the background, there's a flat landscape with some green vegetation under a cloudy sky.

Photo No.	Date	
4	July 22, 2021	
Excavation activities north of the plugged and abandoned well facing south		 A photograph showing a deep, narrow excavation pit. The soil is reddish-brown and appears to be layered. A person is standing on the edge of the pit in the distance, providing a sense of scale. The background shows a flat landscape with some green vegetation under a blue sky with scattered clouds.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	SANTA FE #8 Eddy County, NM	TE034821008
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Photo No.	Date	
5	July 22, 2021	
Excavation activities in the southern pad area facing southeast		 A photograph showing a large, flat, reddish-brown excavation site. A yellow bulldozer is visible in the distance, working on the site. The sky is blue with some clouds.

Photo No.	Date	
6	July 22, 2021	
Excavation activities in the southern pad area facing northeast		 A photograph showing a large, flat, reddish-brown excavation site. A yellow excavator is visible in the distance, working on the site. The sky is blue with some clouds.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	SANTA FE #8 Eddy County, NM	TE034821008
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Photo No.	Date	
7	July 23, 2021	
Final northern excavation extent facing north		 A photograph showing a large, deep excavation site. The ground is reddish-brown soil and gravel. In the background, a yellow excavator is visible on a raised embankment under a clear blue sky.

Photo No.	Date	
8	July 23, 2021	
Final southern excavation extent facing west		 A photograph showing a wide, shallow excavation site. The ground is reddish-brown soil and gravel. In the background, there is a line of green vegetation under a cloudy sky.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	SANTA FE #8 Eddy County, NM	TE034821008
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Photo No.	Date	
9	July 23, 2021	
Final southern excavation area facing east		

Photo No.	Date	
10	July 23, 2021	
Final western excavation extent facing south		

ATTACHMENT 3: LITHOLOGIC/SOIL SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Sample ID: PH01		Date: 7/26/2021	
								Site Name: Santa Fe #8			
								Incident Numbers: nHMP1407233282, nAB1432936692 and nAB1836158635			
								WSP Job Number: TE034821008			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Track Hoe	
Lat/Long: 32.354720, -104.051324				Field Screening: Chloride, PID				Hole Diameter: n/a		Total Depth: 1 foot	
Comments: M - Moisture Content Moist; D - Moisture Content Dry; Chloride values do not include correction factor											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M	112	0	No	PH01	0.5	0.5	SP-SM	Brown poorly-graded SAND with silt and gravel, trace roots, no plasticity, no odor Off-white well cemented CALICHE, gravel sized clasts, no odor			
D	164	0	No	PH01	1	1	CCHE				
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Sample ID: PH02		Date: 7/26/2021	
								Site Name: Santa Fe #8			
								Incident Numbers: nHMP1407233282, nAB1432936692 and nAB1836158635			
								WSP Job Number: TE034821008			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Track Hoe	
Lat/Long: 32.354522, -104.050985				Field Screening: Chloride, PID				Hole Diameter: n/a		Total Depth: 1 foot	
Comments: M - Moisture Content Moist; D - Moisture Content Dry; Chloride values do not include correction factor											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M	112	0	No	PH01	0.5	0.5	SP-SM	Brown poorly-graded SAND with silt and gravel, trace roots, no plasticity, no odor			
D	164	0	No	PH01	1	1	CCHE	Off-white well cemented CALICHE, gravel sized clasts, no odor			
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Sample ID: PH03		Date: 7/26/2021	
								Site Name: Santa Fe #8			
								Incident Numbers: nHMP1407233282, nAB1432936692 and nAB1836158635			
								WSP Job Number: TE034821008			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Track Hoe	
Lat/Long: 32.354249, -104.050959				Field Screening: Chloride, PID				Hole Diameter: n/a		Total Depth: 1 foot	
Comments: D - Moisture Content Dry; Chloride values do not include correction factor											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	224	0	No	PH03	0.5	0.5	CCHE	Off-white well cemented CALICHE, gravel sized clasts, no odor			
D	416	0	No	PH03	1	1	CCHE				
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Sample ID: PH04		Date: 7/26/2021	
								Site Name: Santa Fe #8			
								Incident Numbers: nHMP1407233282, nAB1432936692 and nAB1836158635			
								WSP Job Number: TE034821008			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Anna Byers		Method: Track Hoe	
Lat/Long: 32.354421, -104.051853				Field Screening: Chloride, PID				Hole Diameter: n/a		Total Depth: 1 foot	
Comments: BDL - Below detection limit (<112 ppm); D - Moisture Content Dry; Chloride values do not include correction factor											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	BDL	0	No	PH04	0.5	0.5	SP-SM	Brown poorly-graded SAND with silt and gravel, trace roots, no plasticity, no odor			
D	BDL	0	No	PH04	1	1	CCHE	Off-white well cemented CALICHE, gravel sized clasts, no odor			
Total Depth											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								Sample ID: PH04		Date: 7/26/2021	
								Site Name: Santa Fe #8			
								Incident Numbers: nHMP13072, , 282AnB9 13, 25, 6652 and nB9 18, 61486, 4			
								WSP Job Number: TE0, 3821008			
LITHOLOGIC / SOIL SAMPLING LOG								Logged 9y: Bnna 9yers		Method: Track Hoe	
Lat/Long: 32.354218, -104.051871				Field Screening: ChlorideAPID				Hole Diameter: n/a		Total Depth: 1 foot	
Comments: 9DL - 9elow detection limit (<112 ppm); D - Moisture Content Dry; Chloride values do not include correction factor											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	9DL	0	No	PH04	0.4	0.4	SP-SM	9rown poorly-graded SBND with silt and gravelAtrace rootsAno plasticityAno odor			
D	9DL	0	No	PH04	1	1	CCHE	Off-white well cemented CBLICHEAgravel sized clastsAno odor			
Total Depth											

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1008-1

Laboratory Sample Delivery Group: TE034821008
Client Project/Site: Santa Fe 8

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/4/2021 3:08:01 PM

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

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Laboratory Job ID: 890-1008-1
SDG: TE034821008

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Job ID: 890-1008-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1008-1****Receipt**

The samples were received on 7/27/2021 1:06 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 2.0°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW01 (890-1008-1), SW02 (890-1008-2), SW04 (890-1008-4), SW08 (890-1008-8) and SW09 (890-1008-9). 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.

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW01

Lab Sample ID: 890-1008-1

Date Collected: 07/26/21 13:00

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/28/21 16:39	1
Toluene	0.0122		0.00199		mg/Kg		07/28/21 08:46	07/28/21 16:39	1
Ethylbenzene	0.00773		0.00199		mg/Kg		07/28/21 08:46	07/28/21 16:39	1
m-Xylene & p-Xylene	0.192		0.00398		mg/Kg		07/28/21 08:46	07/28/21 16:39	1
o-Xylene	0.115		0.00199		mg/Kg		07/28/21 08:46	07/28/21 16:39	1
Xylenes, Total	0.307		0.00398		mg/Kg		07/28/21 08:46	07/28/21 16:39	1
Total BTEX	0.327		0.00398		mg/Kg		07/28/21 08:46	07/28/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250	S1+	70 - 130	07/28/21 08:46	07/28/21 16:39	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/28/21 08:46	07/28/21 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 11:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 11:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 11:38	1
Total TPH	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	07/29/21 09:59	07/31/21 11:38	1
o-Terphenyl	117		70 - 130	07/29/21 09:59	07/31/21 11:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		25.0		mg/Kg			08/03/21 19:11	5

Client Sample ID: SW02

Lab Sample ID: 890-1008-2

Date Collected: 07/26/21 13:03

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 17:00	1
Toluene	0.00668		0.00200		mg/Kg		07/28/21 08:46	07/28/21 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 17:00	1
m-Xylene & p-Xylene	0.0358		0.00400		mg/Kg		07/28/21 08:46	07/28/21 17:00	1
o-Xylene	0.0350		0.00200		mg/Kg		07/28/21 08:46	07/28/21 17:00	1
Xylenes, Total	0.0708		0.00400		mg/Kg		07/28/21 08:46	07/28/21 17:00	1
Total BTEX	0.0775		0.00400		mg/Kg		07/28/21 08:46	07/28/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	07/28/21 08:46	07/28/21 17:00	1
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130	07/28/21 08:46	07/28/21 17:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW02

Lab Sample ID: 890-1008-2

Date Collected: 07/26/21 13:03

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 12:41	1
Total TPH	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	07/29/21 09:59	07/31/21 12:41	1
o-Terphenyl	112		70 - 130	07/29/21 09:59	07/31/21 12:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	444		25.2		mg/Kg			08/03/21 19:16	5

Client Sample ID: SW03

Lab Sample ID: 890-1008-3

Date Collected: 07/26/21 13:06

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 21:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 21:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 21:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/28/21 21:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 21:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/28/21 21:22	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/28/21 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/28/21 08:46	07/28/21 21:22	1
1,4-Difluorobenzene (Surr)	111		70 - 130	07/28/21 08:46	07/28/21 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:02	1
Total TPH	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/29/21 09:59	07/31/21 13:02	1
o-Terphenyl	117		70 - 130	07/29/21 09:59	07/31/21 13:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		4.99		mg/Kg			08/03/21 19:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW04

Lab Sample ID: 890-1008-4

Date Collected: 07/26/21 13:09

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00272		0.00199		mg/Kg		07/28/21 08:46	07/28/21 21:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/28/21 21:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/28/21 21:43	1
m-Xylene & p-Xylene	0.0123		0.00398		mg/Kg		07/28/21 08:46	07/28/21 21:43	1
o-Xylene	0.0135		0.00199		mg/Kg		07/28/21 08:46	07/28/21 21:43	1
Xylenes, Total	0.0258		0.00398		mg/Kg		07/28/21 08:46	07/28/21 21:43	1
Total BTEX	0.0285		0.00398		mg/Kg		07/28/21 08:46	07/28/21 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	261	S1+	70 - 130	07/28/21 08:46	07/28/21 21:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/28/21 08:46	07/28/21 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/29/21 09:59	07/31/21 13:23	1
o-Terphenyl	113		70 - 130	07/29/21 09:59	07/31/21 13:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		24.9		mg/Kg			08/03/21 19:38	5

Client Sample ID: SW05

Lab Sample ID: 890-1008-5

Date Collected: 07/26/21 13:12

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:46	07/28/21 22:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/28/21 08:46	07/28/21 22:04	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/28/21 08:46	07/28/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/28/21 08:46	07/28/21 22:04	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/28/21 08:46	07/28/21 22:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW05

Lab Sample ID: 890-1008-5

Date Collected: 07/26/21 13:12

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/29/21 09:59	07/31/21 13:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/29/21 09:59	07/31/21 13:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/29/21 09:59	07/31/21 13:45	1
Total TPH	<49.8	U	49.8		mg/Kg		07/29/21 09:59	07/31/21 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	07/29/21 09:59	07/31/21 13:45	1
o-Terphenyl	126		70 - 130	07/29/21 09:59	07/31/21 13:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		24.8		mg/Kg			08/03/21 19:54	5

Client Sample ID: SW06

Lab Sample ID: 890-1008-6

Date Collected: 07/26/21 13:15

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00217		0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:46	07/28/21 22:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 22:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/28/21 08:46	07/28/21 22:25	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/28/21 08:46	07/28/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/28/21 08:46	07/28/21 22:25	1
1,4-Difluorobenzene (Surr)	124		70 - 130	07/28/21 08:46	07/28/21 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/29/21 09:59	07/31/21 14:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/29/21 09:59	07/31/21 14:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/29/21 09:59	07/31/21 14:06	1
Total TPH	<49.7	U	49.7		mg/Kg		07/29/21 09:59	07/31/21 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	07/29/21 09:59	07/31/21 14:06	1
o-Terphenyl	115		70 - 130	07/29/21 09:59	07/31/21 14:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	772		4.97		mg/Kg			08/03/21 19:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW07

Lab Sample ID: 890-1008-7

Date Collected: 07/26/21 13:18

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:46	07/28/21 22:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:46	07/28/21 22:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:46	07/28/21 22:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/28/21 08:46	07/28/21 22:45	1
o-Xylene	0.00231		0.00202		mg/Kg		07/28/21 08:46	07/28/21 22:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/28/21 08:46	07/28/21 22:45	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/28/21 08:46	07/28/21 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/28/21 08:46	07/28/21 22:45	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/28/21 08:46	07/28/21 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 14:27	1
Total TPH	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	07/29/21 09:59	07/31/21 14:27	1
o-Terphenyl	119		70 - 130	07/29/21 09:59	07/31/21 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2160		25.0		mg/Kg			08/03/21 20:05	5

Client Sample ID: SW08

Lab Sample ID: 890-1008-8

Date Collected: 07/26/21 13:21

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 23:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 23:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 23:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/28/21 23:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/28/21 23:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/28/21 23:06	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/28/21 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/28/21 08:46	07/28/21 23:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/28/21 08:46	07/28/21 23:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW08

Lab Sample ID: 890-1008-8

Date Collected: 07/26/21 13:21

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 14:48	1
Total TPH	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	07/29/21 09:59	07/31/21 14:48	1
o-Terphenyl	130		70 - 130	07/29/21 09:59	07/31/21 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.99		mg/Kg			08/03/21 20:10	1

Client Sample ID: SW09

Lab Sample ID: 890-1008-9

Date Collected: 07/26/21 13:24

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:27	1
Ethylbenzene	0.00392		0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:46	07/28/21 23:27	1
o-Xylene	0.00243		0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/28/21 08:46	07/28/21 23:27	1
Total BTEX	0.00635		0.00401		mg/Kg		07/28/21 08:46	07/28/21 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/28/21 08:46	07/28/21 23:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/28/21 08:46	07/28/21 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 15:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 15:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 15:09	1
Total TPH	<50.0	U	50.0		mg/Kg		07/29/21 09:59	07/31/21 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/29/21 09:59	07/31/21 15:09	1
o-Terphenyl	110		70 - 130	07/29/21 09:59	07/31/21 15:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		4.98		mg/Kg			08/03/21 20:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW10

Lab Sample ID: 890-1008-10

Date Collected: 07/26/21 13:27

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:46	07/28/21 23:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 23:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/28/21 08:46	07/28/21 23:47	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/28/21 08:46	07/28/21 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/28/21 08:46	07/28/21 23:47	1
1,4-Difluorobenzene (Surr)	84		70 - 130	07/28/21 08:46	07/28/21 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 15:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 15:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 15:30	1
Total TPH	<49.9	U	49.9		mg/Kg		07/29/21 09:59	07/31/21 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	07/29/21 09:59	07/31/21 15:30	1
o-Terphenyl	116		70 - 130	07/29/21 09:59	07/31/21 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3070		24.8		mg/Kg			08/03/21 20:21	5

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1008-1	SW01	250 S1+	110
890-1008-2	SW02	127	56 S1-
890-1008-3	SW03	115	111
890-1008-4	SW04	261 S1+	97
890-1008-5	SW05	106	99
890-1008-6	SW06	116	124
890-1008-7	SW07	115	108
890-1008-8	SW08	111	96
890-1008-9	SW09	119	96
890-1008-10	SW10	116	84
LCS 880-5731/1-A	Lab Control Sample	106	105
LCSD 880-5731/2-A	Lab Control Sample Dup	93	94
MB 880-5731/5-A	Method Blank	95	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1008-1	SW01	109	117
890-1008-1 MS	SW01	114	117
890-1008-1 MSD	SW01	114	121
890-1008-2	SW02	99	112
890-1008-3	SW03	102	117
890-1008-4	SW04	98	113
890-1008-5	SW05	110	126
890-1008-6	SW06	104	115
890-1008-7	SW07	104	119
890-1008-8	SW08	109	130
890-1008-9	SW09	96	110
890-1008-10	SW10	105	116
LCS 880-5789/2-A	Lab Control Sample	126	135 S1+
LCSD 880-5789/3-A	Lab Control Sample Dup	131 S1+	133 S1+
MB 880-5789/1-A	Method Blank	103	121
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5731/5-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 13:32	1
Tolsene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 13:32	1
EtRObenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 13:32	1
m-(Qene) 5-(Qene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:46	07/28/21 13:32	1
o-(Qene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:46	07/28/21 13:32	1
(QenevHTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:46	07/28/21 13:32	1
Total BTE(	<0.00400	U	0.00400		mg/Kg		07/28/21 08:46	07/28/21 13:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	25		01 - +71	103 83 + 18:46	103 83 + +7:7/	+
+94-, fluoro benzene (Surr)	80		01 - +71	103 83 + 18:46	103 83 + +7:7/	+

Lab Sample ID: LCS 880-5731/1-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1227		mg/Kg		123	70 - 130
Tolsene	0.100	0.1030		mg/Kg		103	70 - 130
EtRObenzene	0.100	0.1010		mg/Kg		101	70 - 130
m-(Qene) 5-(Qene	0.200	0.2098		mg/Kg		10h	70 - 130
o-(Qene	0.100	0.1000		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	+16		01 - +71
+94-, fluoro benzene (Surr)	+15		01 - +71

Lab Sample ID: LCSD 880-5731/2-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	17	3h
Tolsene	0.100	0.09007		mg/Kg		90	70 - 130	13	3h
EtRObenzene	0.100	0.09234		mg/Kg		92	70 - 130	9	3h
m-(Qene) 5-(Qene	0.200	0.1880		mg/Kg		94	70 - 130	11	3h
o-(Qene	0.100	0.09089		mg/Kg		91	70 - 130	10	3h

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	27		01 - +71
+94-, fluoro benzene (Surr)	24		01 - +71

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

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

Lab Sample ID: MB 880-5789/1-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline f ange Xrganicv ,Gf XdC6-C10	<h0.0	U	h0.0		mg/Kg		07/29/21 09:h9	07/31/21 10:36	1
Dievel f ange Xrganicv ,X&er C10-C28d	<h0.0	U	h0.0		mg/Kg		07/29/21 09:h9	07/31/21 10:36	1
Xll f ange Xrganicv ,X&er C28-C36d	<h0.0	U	h0.0		mg/Kg		07/29/21 09:h9	07/31/21 10:36	1
Total TPp	<h0.0	U	h0.0		mg/Kg		07/29/21 09:h9	07/31/21 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
+i Qorooht ne	+17		01 - +71	103 23 + 12:52	103+3 + +1:76	+
o-aerTCenpl	+ / +		01 - +71	103 23 + 12:52	103+3 + +1:76	+

Lab Sample ID: LCS 880-5789/2-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gavoline f ange Xrganicv ,Gf XdC6-C10	1000	909.4		mg/Kg		91	70 - 130
Dievel f ange Xrganicv ,X&er C10-C28d	1000	9h6.3		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
+i Qorooht ne	+ / 6		01 - +71
o-aerTCenpl	+75	S+y	01 - +71

Lab Sample ID: LCSD 880-5789/3-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5789

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gavoline f ange Xrganicv ,Gf XdC6-C10	1000	912.6		mg/Kg		91	70 - 130	0	20
Dievel f ange Xrganicv ,X&er C10-C28d	1000	992.h		mg/Kg		99	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
+i Qorooht ne	+7+	S+y	01 - +71
o-aerTCenpl	+77	S+y	01 - +71

Lab Sample ID: 890-1008-1 MS

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 5789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gavoline f ange Xrganicv ,Gf XdC6-C10	<h0.0	U	996	1237		mg/Kg		122	70 - 130
Dievel f ange Xrganicv ,X&er C10-C28d	<h0.0	U	996	1040		mg/Kg		104	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

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

Lab Sample ID: 890-1008-1 MS

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 5789

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
+i Chlorohd ne	++4		01 - +71
o-aerTCenpl	++0		01 - +71

Lab Sample ID: 890-1008-1 MSD

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 5789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gavoline f ange Xrganicv ,Gf XdC6-C10	<h0.0	U	996	1320		mg/Kg		130	70 - 130	7	20
Dievel f ange Xrganicv ,X&er C10-C28d	<h0.0	U	996	1074		mg/Kg		108	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
+i Chlorohd ne	++4		01 - +71
o-aerTCenpl	+ / +		01 - +71

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6009/1-A

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
CRloriue	<h.00	U	h.00		mg/Kg			08/03/21 17:4h	1

Lab Sample ID: LCS 880-6009/2-A

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
CRloriue	2h0	229.2		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-6009/3-A

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
CRloriue	2h0	229.7		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 890-1008-2 MS

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: SW02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
CRloriue	444		1260	1647		mg/Kg		9h	90 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1008-2 MSD							Client Sample ID: SW02					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 6019												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
CRoriue	444		1260	16h8		mg/Kg		96	90 - 110	1	20	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

GC VOA

Prep Batch: 5731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-1	SW01	Total/NA	Solid	5035	
890-1008-2	SW02	Total/NA	Solid	5035	
890-1008-3	SW03	Total/NA	Solid	5035	
890-1008-4	SW04	Total/NA	Solid	5035	
890-1008-5	SW05	Total/NA	Solid	5035	
890-1008-6	SW06	Total/NA	Solid	5035	
890-1008-7	SW07	Total/NA	Solid	5035	
890-1008-8	SW08	Total/NA	Solid	5035	
890-1008-9	SW09	Total/NA	Solid	5035	
890-1008-10	SW10	Total/NA	Solid	5035	
MB 880-5731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-1	SW01	Total/NA	Solid	8021B	5731
890-1008-2	SW02	Total/NA	Solid	8021B	5731
890-1008-3	SW03	Total/NA	Solid	8021B	5731
890-1008-4	SW04	Total/NA	Solid	8021B	5731
890-1008-5	SW05	Total/NA	Solid	8021B	5731
890-1008-6	SW06	Total/NA	Solid	8021B	5731
890-1008-7	SW07	Total/NA	Solid	8021B	5731
890-1008-8	SW08	Total/NA	Solid	8021B	5731
890-1008-9	SW09	Total/NA	Solid	8021B	5731
890-1008-10	SW10	Total/NA	Solid	8021B	5731
MB 880-5731/5-A	Method Blank	Total/NA	Solid	8021B	5731
LCS 880-5731/1-A	Lab Control Sample	Total/NA	Solid	8021B	5731
LCSD 880-5731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5731

GC Semi VOA

Prep Batch: 5789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-1	SW01	Total/NA	Solid	8015NM Prep	
890-1008-2	SW02	Total/NA	Solid	8015NM Prep	
890-1008-3	SW03	Total/NA	Solid	8015NM Prep	
890-1008-4	SW04	Total/NA	Solid	8015NM Prep	
890-1008-5	SW05	Total/NA	Solid	8015NM Prep	
890-1008-6	SW06	Total/NA	Solid	8015NM Prep	
890-1008-7	SW07	Total/NA	Solid	8015NM Prep	
890-1008-8	SW08	Total/NA	Solid	8015NM Prep	
890-1008-9	SW09	Total/NA	Solid	8015NM Prep	
890-1008-10	SW10	Total/NA	Solid	8015NM Prep	
MB 880-5789/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5789/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5789/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1008-1 MS	SW01	Total/NA	Solid	8015NM Prep	
890-1008-1 MSD	SW01	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

GC Semi VOA

Analysis Batch: 5913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-1	SW01	Total/NA	Solid	8015B NM	5789
890-1008-2	SW02	Total/NA	Solid	8015B NM	5789
890-1008-3	SW03	Total/NA	Solid	8015B NM	5789
890-1008-4	SW04	Total/NA	Solid	8015B NM	5789
890-1008-5	SW05	Total/NA	Solid	8015B NM	5789
890-1008-6	SW06	Total/NA	Solid	8015B NM	5789
890-1008-7	SW07	Total/NA	Solid	8015B NM	5789
890-1008-8	SW08	Total/NA	Solid	8015B NM	5789
890-1008-9	SW09	Total/NA	Solid	8015B NM	5789
890-1008-10	SW10	Total/NA	Solid	8015B NM	5789
MB 880-5789/1-A	Method Blank	Total/NA	Solid	8015B NM	5789
LCS 880-5789/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5789
LCSD 880-5789/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5789
890-1008-1 MS	SW01	Total/NA	Solid	8015B NM	5789
890-1008-1 MSD	SW01	Total/NA	Solid	8015B NM	5789

HPLC/IC

Leach Batch: 6009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-1	SW01	Soluble	Solid	DI Leach	
890-1008-2	SW02	Soluble	Solid	DI Leach	
890-1008-3	SW03	Soluble	Solid	DI Leach	
890-1008-4	SW04	Soluble	Solid	DI Leach	
890-1008-5	SW05	Soluble	Solid	DI Leach	
890-1008-6	SW06	Soluble	Solid	DI Leach	
890-1008-7	SW07	Soluble	Solid	DI Leach	
890-1008-8	SW08	Soluble	Solid	DI Leach	
890-1008-9	SW09	Soluble	Solid	DI Leach	
890-1008-10	SW10	Soluble	Solid	DI Leach	
MB 880-6009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1008-2 MS	SW02	Soluble	Solid	DI Leach	
890-1008-2 MSD	SW02	Soluble	Solid	DI Leach	

Analysis Batch: 6019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-1	SW01	Soluble	Solid	300.0	6009
890-1008-2	SW02	Soluble	Solid	300.0	6009
890-1008-3	SW03	Soluble	Solid	300.0	6009
890-1008-4	SW04	Soluble	Solid	300.0	6009
890-1008-5	SW05	Soluble	Solid	300.0	6009
890-1008-6	SW06	Soluble	Solid	300.0	6009
890-1008-7	SW07	Soluble	Solid	300.0	6009
890-1008-8	SW08	Soluble	Solid	300.0	6009
890-1008-9	SW09	Soluble	Solid	300.0	6009
890-1008-10	SW10	Soluble	Solid	300.0	6009
MB 880-6009/1-A	Method Blank	Soluble	Solid	300.0	6009
LCS 880-6009/2-A	Lab Control Sample	Soluble	Solid	300.0	6009
LCSD 880-6009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6009

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

HPLC/IC (Continued)

Analysis Batch: 6019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1008-2 MS	SW02	Soluble	Solid	300.0	6009
890-1008-2 MSD	SW02	Soluble	Solid	300.0	6009

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW01

Lab Sample ID: 890-1008-1

Date Collected: 07/26/21 13:00

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 16:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 11:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			6019	08/03/21 19:11	CH	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-1008-2

Date Collected: 07/26/21 13:03

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 17:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 12:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			6019	08/03/21 19:16	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-1008-3

Date Collected: 07/26/21 13:06

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 21:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 13:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			6019	08/03/21 19:32	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-1008-4

Date Collected: 07/26/21 13:09

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 21:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			6019	08/03/21 19:38	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW05

Lab Sample ID: 890-1008-5

Date Collected: 07/26/21 13:12

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 22:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			6019	08/03/21 19:54	CH	XEN MID

Client Sample ID: SW06

Lab Sample ID: 890-1008-6

Date Collected: 07/26/21 13:15

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 22:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 14:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			6019	08/03/21 19:59	CH	XEN MID

Client Sample ID: SW07

Lab Sample ID: 890-1008-7

Date Collected: 07/26/21 13:18

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 22:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			6019	08/03/21 20:05	CH	XEN MID

Client Sample ID: SW08

Lab Sample ID: 890-1008-8

Date Collected: 07/26/21 13:21

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 23:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			6019	08/03/21 20:10	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Client Sample ID: SW09

Lab Sample ID: 890-1008-9

Date Collected: 07/26/21 13:24

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 23:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 15:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			6019	08/03/21 20:16	CH	XEN MID

Client Sample ID: SW10

Lab Sample ID: 890-1008-10

Date Collected: 07/26/21 13:27

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/28/21 23:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 15:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5			6019	08/03/21 20:21	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1008-1
SDG: TE034821008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1008-1	SW01	Solid	07/26/21 13:00	07/27/21 13:06	0 - 4
890-1008-2	SW02	Solid	07/26/21 13:03	07/27/21 13:06	0 - 4
890-1008-3	SW03	Solid	07/26/21 13:06	07/27/21 13:06	0 - 4
890-1008-4	SW04	Solid	07/26/21 13:09	07/27/21 13:06	0 - 4
890-1008-5	SW05	Solid	07/26/21 13:12	07/27/21 13:06	0 - 4
890-1008-6	SW06	Solid	07/26/21 13:15	07/27/21 13:06	0 - 4
890-1008-7	SW07	Solid	07/26/21 13:18	07/27/21 13:06	0 - 4
890-1008-8	SW08	Solid	07/26/21 13:21	07/27/21 13:06	0 - 4
890-1008-9	SW09	Solid	07/26/21 13:24	07/27/21 13:06	0 - 4
890-1008-10	SW10	Solid	07/26/21 13:27	07/27/21 13:06	0 - 4



Environment Testing
Xenco

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

Chain of Custody

Work Order No:

Page 1 of 1
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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDIA LAUMBACH
Company Name:	WSP USA	Company Name:	WPP ENERGY
Address:	3300 NOBHTA STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CHASBUD, NM 88120
Phone:	(801) 702-2329	Email:	anna.byers@wsp.com

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

Project Name:	Santa Fe Co	Turn Around	Pres. Code
Project Number:	TE034821008	☒ Routine ☐ Rush	
Project Location:	EDDY COUNTY	Due Date:	
Sampler's Name:	ANNA BYERS	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	see comments		
SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice: Yes ☒ No ☐
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	71111-001
Cooler Custody Seals:	Yes ☐ No ☐ N/A	Correction Factor:	
Sample Custody Seals:	Yes ☐ No ☐ N/A	Temperature Reading:	2.2
Total Containers:		Corrected Temperature:	2.0
Parameters			
EX (EPA 8021B)			
A (EPA 8015 Mod)			
Iodide (EPA 8010)			
ANALYSIS REQUEST			
 890-1008 Chain of Custody			
Preservative Codes			
None: NO	DI Water: H ₂ O		
Cool: Cool	MeOH: Me		
HCL: HC	HNO ₃ : HN		
H ₂ SO ₄ : H ₂	NaOH: Na		
H ₃ PO ₄ : HP			
NaHSO ₄ : NABIS			
Na ₂ S ₂ O ₃ : NaSO ₃			
Zn Acetate+NaOH: Zn			
NaOH+Ascorbic Acid: SASC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont	BT	TPH	Ch	Sample Comments									
SW01	S	7/26/21	1300	0-4'	Comp	1	X	X	X	Incident #5:									
SW02			1303	0-4'		1	X	X	X	NHP1407233282									
SW03			1306	0-4'		1	X	X	X	NAB1432934692									
SW04			1309	0-4'		1	X	X	X	NAB18240158435									
SW05			1312	0-4'		1	X	X	X										
SW06			1315	0-4'		1	X	X	X										
SW07			1318	0-4'		1	X	X	X										
SW08			1321	0-4'		1	X	X	X										
SW09			1324	0-4'		1	X	X	X										
SW10			1327	0-4'		1	X	X	X										

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	St	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP	6010: 8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg: 1631 / 245.1 / 7470 / 7471								

Notice: Signature of this document is irrevocable and constitutes a valid purchase order from client company to Eurofima Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofima Xencro 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 Eurofima Xencro. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofima Xencro, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Amne Byers</i>	<i>Cheryl</i>	7-27-21 1300			
3		4			
5		6			

Formed Date: 08/25/2020 Rev: 2020



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 503-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

Page 1 of 1
www.xenco.com

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LAUMBACH
Company Name:	WSP USA	Company Name:	WSP ENERGY
Address:	3300 NORTH A STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CHASBAD, NM 88120
Phone:	(801) 702-2329	Email:	anna.byers@wsp.com

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

Project Name:	Santa Fe Co		Turn Around	
Project Number:	TE034821008		☒ Routine ☐ Rush	
Project Location:	EDDY COUNTY		Due Date:	
Sampler's Name:	ANNA BYERS		TAT starts the day received by the lab. If received by 4:30pm	
PO #:	see comments			
SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:
Samples Received In/act:	Yes ☒ No ☐	Thermometer ID:	711111001	
Cooler Custody Seals:	Yes ☐ No ☒	Correction Factor:		
Sample Custody Seals:	Yes ☐ No ☒	Temperature Reading:	2.2	
Total Containers:		Corrected Temperature:	2.2	
Parameters				Pres. Code
EX (EPA 821B)				
A (EPA 815 Mod)				
boride (EPA 330.0)				
ANALYSIS REQUEST				
				
890-1008 Chain of Custody				
Preservative Codes				
None: NO	DI Water: H ₂ O			
Cool: Cool	MeOH: Me			
HCL: HC	HNO ₃ : HN			
H ₂ SO ₄ : H ₂	NaOH: Na			
H ₃ PO ₄ : HP				
NaHSO ₄ : NABIS				
Na ₂ S ₂ O ₃ : NaSO ₃				
Zn Acetate+NaOH: Zn				
NaOH+Ascorbic Acid: SAPC				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BT	TPH	Chl	Incident #s:
SWQ1	S	7/20/21	1350	0-4'	Comp	1	X	X	X	11MP1407233282
SWQ2			1303	0-4'		1	X	X	X	NAB1432934092
SWQ3			1306	0-4'		1	X	X	X	NAB1830158135
SWQ4			1309	0-4'		1	X	X	X	
SWQ5			1312	0-4'		1	X	X	X	
SWQ6			1315	0-4'		1	X	X	X	
SWQ7			1318	0-4'		1	X	X	X	
SWQ8			1321	0-4'		1	X	X	X	
SWQ9			1324	0-4'		1	X	X	X	
SW10			1327	0-4'		1	X	X	X	

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP	6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U				Hg:	1631 / 245.1	7470 / 7471						

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Dune Byrre</i>	<i>Steve Cury</i>	7/27/21 1300			
3			4		
5			6		

Revised Date 08/25/2020 Row 2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1008-1

SDG Number: TE034821008

Login Number: 1008

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1008-1

SDG Number: TE034821008

Login Number: 1008

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 07/28/21 11:00 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1009-1

Laboratory Sample Delivery Group: TE034821008
Client Project/Site: Santa Fe 8

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/4/2021 3:08:49 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Laboratory Job ID: 890-1009-1
SDG: TE034821008

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Inuicateg tve analyte x ag analydeu sör brnt not uetectedu.

GC Semi VOA

Qualifier	Qualifier Description
S1,	Snrowate reco+ery ehceeu control liz itgf viw biageu.
U	Inuicateg tve analyte x ag analydeu sör brnt not uetectedu.

HPLC/IC

Qualifier	Qualifier Description
U	Inuicateg tve analyte x ag analydeu sör brnt not uetectedu.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Ligteu muuer tve "D" colnz n to uegiwnate tvat tve regnt ig reporteü on a ury x eiwt bagig
%R	Percent Reco+ery
CFL	Containg Free Liqriu
CFU	Colony Forz inwUnit
CNF	Containg No Free Liqriu
DER	Dmplicate Error Ratio (norz alideu abgolrte uisserence)
Dil Fac	Dilrtion Factor
DL	Detection Liz it (DoD/DOE)
DLf RAf REF IN	Inuicateg a Dilrtionf Re-analygigf Re-ehtractionf or auuitional Initial z etalg/anion analygig ostve gaz ple
DLC	Decigion Le+el Concentration (Rauiocvez igtry)
EDL	Egtiz ateu Detection Liz it (Diohin)
LOD	Liz it osDetection (DoD/DOE)
LOQ	Liz it osQmñtitation (DoD/DOE)
MCL	EPA recoz z enueu "Mahiz nñ Contaz inant Le+el"
MDA	Miniz nñ Detectable Acti+ity (Rauiocvez igtry)
MDC	Miniz nñ Detectable Concentration (Rauiocvez igtry)
MDL	Metvou Detection Liz it
ML	Miniz nñ Le+el (Diohin)
MPN	Mogt Probable Nñz ber
MQL	Metvou Qmñtitation Liz it
NC	Not Calcñlateu
ND	Not Detecteu at tve reportinwliz it (or MDL or EDL isgvox n)
NEG	Newati+e / Abgent
POS	Pogiti+e / Pregent
PQL	Practical Qmñtitation Liz it
PRES	Pregnñ pti+e
QC	Qñality Control
RER	Relati+e Error Ratio (Rauiocvez igtry)
RL	ReportinwLiz it or Reqnegteu Liz it (Rauiocvez igtry)
RPD	Relati+e Percent Disserencef a z eagnñ ostve relati+e uisserence betx een tx o pointg
TEF	Tohicity Eqññ+alent Factor (Diohin)
TEQ	Tohicity Eqññ+alent Qñotient (Diohin)
TNTC	Too Nñz erong To Comñt

Enroöing Xencof Carlgbau

Case Narrative

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Job ID: 890-1009-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1009-1****Receipt**

The samples were received on 7/27/2021 1:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH02 (890-1009-3), PH03 (890-1009-5), PH03 (890-1009-6), PH04 (890-1009-7), PH04 (890-1009-8), (890-1009-A-3-A MS) and (890-1009-A-3-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH02 (890-1009-3), PH03 (890-1009-5), PH03 (890-1009-6), PH04 (890-1009-7), PH04 (890-1009-8), (890-1009-A-3-A MS) and (890-1009-A-3-B MSD). 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.

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH01

Lab Sample ID: 890-1009-1

Date Collected: 07/26/21 10:22

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/29/21 00:08	1
Tolsene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/29/21 00:08	1
EtRObenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/29/21 00:08	1
m-(Qene) 5-(Qene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:46	07/29/21 00:08	1
o-(Qene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:46	07/29/21 00:08	1
(QenevHTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:46	07/29/21 00:08	1
Total BTE(	<0.00398	U	0.00398		mg/Kg		07/28/21 08:46	07/29/21 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250		10 - 2+0	01/15/20 03:48	01/15/20 00:03	2
2,4-Difluorobenzene (Surr)	208		10 - 2+0	01/15/20 03:48	01/15/20 00:03	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:11	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:11	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:11	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooQene	22f		10 - 2+0	01/15/20 03:48	01/15/20 00:03	2
o-aerTi enpl	254		10 - 2+0	01/15/20 03:48	01/15/20 00:03	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.0		X0.0		mg/Kg			08/03/21 20:26	1

Client Sample ID: PH01

Lab Sample ID: 890-1009-2

Date Collected: 07/26/21 10:25

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/29/21 00:29	1
Tolsene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/29/21 00:29	1
EtRObenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/29/21 00:29	1
m-(Qene) 5-(Qene	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/29/21 00:29	1
o-(Qene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:46	07/29/21 00:29	1
(QenevHTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/29/21 00:29	1
Total BTE(	<0.00402	U	0.00402		mg/Kg		07/28/21 08:46	07/29/21 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: +		10 - 2+0	01/15/20 03:48	01/15/20 00:03	2
2,4-Difluorobenzene (Surr)	38		10 - 2+0	01/15/20 03:48	01/15/20 00:03	2

Esro8nv (encoHCarlvbap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH01

Lab Sample ID: 890-1009-2

Date Collected: 07/26/21 10:25

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:31	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:31	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:31	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	203		10 - 2+0	0175: 752 0: /t :	017-2752 28/+2	2
o-aerTi enpl	22t		10 - 2+0	0175: 752 0: /t :	017-2752 28/+2	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.99		mg/Kg			08/04/21 00:12	1

Client Sample ID: PH02

Lab Sample ID: 890-1009-3

Date Collected: 07/26/21 11:28

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1
Tolsene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1
Ethylbenzene	0.00206		0.00198		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1
m-Xylene & p-Xylene	0.00416		0.00396		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1
o-Xylene	0.00321		0.00198		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1
Xylenes, Total	0.00737		0.00396		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1
Total BTEX	0.00943		0.00396		mg/Kg		07/28/21 08:43	07/28/21 23:X7	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: +		10 - 2+0	01753752 03/4+	01753752 5+/t 1	2
264-9 ,fluorobenzene (Surr)	: 3		10 - 2+0	01753752 03/4+	01753752 5+/t 1	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 16:X2	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 16:X2	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 16:X2	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 16:X2	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	205		10 - 2+0	0175: 752 0: /t :	017-2752 28/t 5	2
o-aerTi enpl	22:		10 - 2+0	0175: 752 0: /t :	017-2752 28/t 5	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		X.04		mg/Kg			08/04/21 00:28	1

Esro8nv (encoHCarlvbap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH02

Lab Sample ID: 890-1009-4

Date Collected: 07/26/21 11:30

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 00:17	1
Tolsene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 00:17	1
EtRObenzene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 00:17	1
m-(Qene) 5-(Qene	<0.00397	U	0.00397		mg/Kg		07/28/21 08:43	07/29/21 00:17	1
o-(Qene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 00:17	1
(QenevHTotal	<0.00397	U	0.00397		mg/Kg		07/28/21 08:43	07/29/21 00:17	1
Total BTE(	<0.00397	U	0.00397		mg/Kg		07/28/21 08:43	07/29/21 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	254		10 - 2+0	01/23/22 03/4+	01/25/22 00/21	2
2,4-Difluorobenzene (Surr)	: 8		10 - 2+0	01/23/22 03/4+	01/25/22 00/21	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:13	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:13	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:13	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooQene	202		10 - 2+0	01/25/22 01/21	01/27/22 21/2+	2
o-aerTi enpl	22:		10 - 2+0	01/25/22 01/21	01/27/22 21/2+	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		4.97		mg/Kg			08/04/21 00:34	1

Client Sample ID: PH03

Lab Sample ID: 890-1009-5

Date Collected: 07/26/21 11:50

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:38	1
Tolsene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:38	1
EtRObenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:38	1
m-(Qene) 5-(Qene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 00:38	1
o-(Qene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:38	1
(QenevHTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 00:38	1
Total BTE(	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 0		10 - 2+0	01/23/22 03/4+	01/25/22 00/21	2
2,4-Difluorobenzene (Surr)	3t		10 - 2+0	01/23/22 03/4+	01/25/22 00/21	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH03

Lab Sample ID: 890-1009-5

Date Collected: 07/26/21 11:50

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:33	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:33	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:33	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	20+		10 - 2+0	0175: 752 0: /t :	0175: 752 21/++	2
o-aerTi enpl	223		10 - 2+0	0175: 752 0: /t :	0175: 752 21/++	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.96		mg/Kg			08/04/21 00:39	1

Client Sample ID: PH03

Lab Sample ID: 890-1009-6

Date Collected: 07/26/21 11:53

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1
Tolsene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1
EtRObenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1
m-(Cene) 5-(Cene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1
o-(Cene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1
(CenevHTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1
Total BTE(	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 00:X8	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 3		10 - 2+0	01753752 03/4+	0175: 752 00/t 3	2
264-9 ,fluorobenzene (Surr)	: 4		10 - 2+0	01753752 03/4+	0175: 752 00/t 3	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 17:X4	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 17:X4	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 17:X4	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 17:X4	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	224		10 - 2+0	0175: 752 0: /t :	0175: 752 21/t 4	2
o-aerTi enpl	2+5	S2y	10 - 2+0	0175: 752 0: /t :	0175: 752 21/t 4	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.9X		mg/Kg			08/04/21 00:4X	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH04

Lab Sample ID: 890-1009-7

Date Collected: 07/26/21 12:15

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 01:19	1
Tolsene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 01:19	1
EtRObenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 01:19	1
m-(Qene) 5-(Qene	<0.00403	U	0.00403		mg/Kg		07/28/21 08:43	07/29/21 01:19	1
o-(Qene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 01:19	1
(QenevHTotal	<0.00403	U	0.00403		mg/Kg		07/28/21 08:43	07/29/21 01:19	1
Total BTE(	<0.00403	U	0.00403		mg/Kg		07/28/21 08:43	07/29/21 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	13		10 - 2+0	01/23/22 03/4+	01/25/22 02/2:	2
2,4-Difluorobenzene (Surr)	30		10 - 2+0	01/23/22 03/4+	01/25/22 02/2:	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:14	1
uGhy f-C6-C10									
Dievel hange y rganicv uy , er	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:14	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:14	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lorioOene	202		10 - 2+0	01/25/22 0: /t :	01/27/22 23/24	2
o-aerTi enpl	22+		10 - 2+0	01/25/22 0: /t :	01/27/22 23/24	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		4.9X		mg/Kg			08/04/21 01:01	1

Client Sample ID: PH04

Lab Sample ID: 890-1009-8

Date Collected: 07/26/21 12:20

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:39	1
Tolsene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:39	1
EtRObenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:39	1
m-(Qene) 5-(Qene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:43	07/29/21 01:39	1
o-(Qene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:39	1
(QenevHTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 08:43	07/29/21 01:39	1
Total BTE(	<0.00399	U	0.00399		mg/Kg		07/28/21 08:43	07/29/21 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 5		10 - 2+0	01/23/22 03/4+	01/25/22 02/+:	2
2,4-Difluorobenzene (Surr)	3+		10 - 2+0	01/23/22 03/4+	01/25/22 02/+:	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH04

Lab Sample ID: 890-1009-8

Date Collected: 07/26/21 12:20

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 18:3X	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 18:3X	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 18:3X	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 09:X9	07/31/21 18:3X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	205		10 - 2+0	0175: 752 0: /t :	0175: 752 23/t :	2
o-aerTi enpl	228		10 - 2+0	0175: 752 0: /t :	0175: 752 23/t :	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4		X.02		mg/Kg			08/04/21 01:06	1

Client Sample ID: PH05

Lab Sample ID: 890-1009-9

Date Collected: 07/26/21 12:30

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1
Tolsene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1
EtRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1
m-(Cene) 5-(Cene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1
o-(Cene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1
(CenevHTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1
Total BTE(	<0.00401	U	0.00401		mg/Kg		07/28/21 08:43	07/29/21 01:X9	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	22+		10 - 2+0	01753752 03/4+	0175: 752 02/t :	2
264-9 ,fluorobenzene (Surr)	: 2		10 - 2+0	01753752 03/4+	0175: 752 02/t :	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:X6	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:X6	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:X6	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 18:X6	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	204		10 - 2+0	0175: 752 0: /t :	0175: 752 23/t 8	2
o-aerTi enpl	22:		10 - 2+0	0175: 752 0: /t :	0175: 752 23/t 8	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.0		X.0X		mg/Kg			08/04/21 01:12	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH05

Lab Sample ID: 890-1009-10

Date Collected: 07/26/21 12:35

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 02:20	1
Tolene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 02:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 02:20	1
m-(Cene) 5-(Cene)	<0.00402	U	0.00402		mg/Kg		07/28/21 08:43	07/29/21 02:20	1
o-(Cene)	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 02:20	1
(Cene)HTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 08:43	07/29/21 02:20	1
Total BTE	<0.00402	U	0.00402		mg/Kg		07/28/21 08:43	07/29/21 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201		10 - 2+0	01/23/22 03/4+	01/25/22 05/50	2
2,4-Difluorobenzene (Surr)	: 0		10 - 2+0	01/23/22 03/4+	01/25/22 05/50	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gavoline hange y rganicv	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 19:16	1
uGh y f-C6-C10									
Dievel hange y rganicv uy , er	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 19:16	1
C10-C28f									
y ll hange y rganicv uy , er C28-C36f	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 19:16	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 09:X9	07/31/21 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lonoOene	203		10 - 2+0	01/25/22 0:/t:	01/27/22 2:/28	2
o-aerTi enpl	221		10 - 2+0	01/25/22 0:/t:	01/27/22 2:/28	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		4.98		mg/Kg			08/04/21 01:17	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1009-1	P+ 01	120	105
890-1009-2	P+ 01	93	85
890-1009-3	P+ 02	93	98
890-1009-3 6 S	P+ 02	125	107
890-1009-4	P+ 02	124	95
890-1009-L	P+ 03	90	8L
890-1009-5	P+ 03	98	94
890-1009-7	P+ 04	78	80
890-1009-8	P+ 04	92	83
890-1009-9	P+ 0L	113	91
890-1009-10	P+ 0L	107	90
mCS 880-L730/1-A	mab Control Sap ule	107	105
mCS 880-L731/1-A	mab Control Sap ule	105	10L
mCSD 880-L730/2-A	mab Control Sap ule DMu	115	107
mCSD 880-L731/2-A	mab Control Sap ule DMu	93	94
6 B 880-L729/L-A	6 ethod Blank	99	90
6 B 880-L730/L-A	6 ethod Blank	128	93
6 B 880-L731/L-A	6 ethod Blank	9L	87
Surrogate Legend			
BFB = 4-Brop oflMrobenzene (SMr)			
DFBZ = 1,4-DiflMrobenzene (SMr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1009-3 6 SD	P+ 02		
Surrogate Legend			
BFB = 4-Brop oflMrobenzene (SMr)			
DFBZ = 1,4-DiflMrobenzene (SMr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1009-1	P+ 01	11L	124
890-1009-2	P+ 01	108	11L
890-1009-3	P+ 02	102	119
890-1009-4	P+ 02	101	119
890-1009-L	P+ 03	103	118
890-1009-5	P+ 03	114	132 S1O
890-1009-7	P+ 04	101	113
890-1009-8	P+ 04	102	115
890-1009-9	P+ 0L	104	119
890-1009-10	P+ 0L	108	117

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
mCS 880-L789/2-A	mab Control Sap ule	125	13L S1O
mCSD 880-L789/3-A	mab Control Sap ule DMu	131 S1O	133 S1O
6 B 880-L789/1-A	6 ethod Blank	103	121
Surrogate Legend			
1Cs = 1-Chlorooctane			
s TP+ = o-Teruhex			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5729/5-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:37	07/28/21 12:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	22		50 - 1+0	05/28/ 731 0/ 8-5	05/28/ 731 138/4	1
1:4-6 Fluorobenzene (Surr)	20		50 - 1+0	05/28/ 731 0/ 8-5	05/28/ 731 138/4	1

Lab Sample ID: MB 880-5730/5-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	13/		50 - 1+0	05/28/ 731 0/ 8+	05/28/ 731 3+8,	1
1:4-6 Fluorobenzene (Surr)	2+		50 - 1+0	05/28/ 731 0/ 8+	05/28/ 731 3+8,	1

Lab Sample ID: LCS 880-5730/1-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.10H0		mg/Kg		10H	70 - 130
Tol6ene	0.100	0.09479		mg/Kg		9H	70 - 130
EtsRbenzene	0.100	0.09337		mg/Kg		93	70 - 130
m-ORene ()-ORene	0.200	0.1872		mg/Kg		94	70 - 130
o-ORene	0.100	0.09488		mg/Kg		9H	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		50 - 1+0
1:4-6 Fluorobenzene (Surr)	10D		50 - 1+0

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

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

Lab Sample ID: LCSD 880-5730/2-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.10u4		mg/Kg		10u	70 - 130	1	3H
Tol6ene	0.100	0.0982H		mg/Kg		98	70 - 130	4	3H
EtsRbenzene	0.100	0.09801		mg/Kg		98	70 - 130	H	3H
m-ORene ()-ORene	0.200	0.1994		mg/Kg		100	70 - 130	u	3H
o-ORene	0.100	0.1009		mg/Kg		101	70 - 130	u	3H

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	11D		50 - 1+0
1:4-6 Fluorobenzene (Surr)	105		50 - 1+0

Lab Sample ID: 890-1009-3 MSD

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 5730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.0H4uH		mg/Kg					
Tol6ene	<0.00198	U	0.100	0.0u324		mg/Kg					
EtsRbenzene	0.0020u		0.100	0.0u22u		mg/Kg					
m-ORene ()-ORene	0.0041u		0.200	0.11u3		mg/Kg					
o-ORene	0.00321		0.100	0.0H897		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1:4-6 Fluorobenzene (Surr)			

Lab Sample ID: MB 880-5731/5-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	2,		50 - 1+0	05/28/ 21 0/ 8/D	05/28/ 21 1+8-3	1
1:4-6 Fluorobenzene (Surr)	/ 5		50 - 1+0	05/28/ 21 0/ 8/D	05/28/ 21 1+8-3	1

Lab Sample ID: LCS 880-5731/1-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1227		mg/Kg		123	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

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

Lab Sample ID: LCS 880-5731/1-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tol6ene	0.100	0.1030		mg/Kg		103	70 - 130
EtsRbenzene	0.100	0.1010		mg/Kg		101	70 - 130
m-ORene ()-ORene	0.200	0.2098		mg/Kg		10H	70 - 130
o-ORene	0.100	0.1000		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	10D		50 - 1+0
1:4-6 Fluorobenzene (Surr)	10,		50 - 1+0

Lab Sample ID: LCSD 880-5731/2-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	17	3H
Tol6ene	0.100	0.09007		mg/Kg		90	70 - 130	13	3H
EtsRbenzene	0.100	0.09234		mg/Kg		92	70 - 130	9	3H
m-ORene ()-ORene	0.200	0.1880		mg/Kg		94	70 - 130	11	3H
o-ORene	0.100	0.09089		mg/Kg		91	70 - 130	10	3H

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	2+		50 - 1+0
1:4-6 Fluorobenzene (Surr)	24		50 - 1+0

Lab Sample ID: 890-1009-3 MS

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: PH02

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	13D		50 - 1+0
1:4-6 Fluorobenzene (Surr)	105		50 - 1+0

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

Lab Sample ID: MB 880-5789/1-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline f ange Xrganic5	<H0.0	U	H0.0		mg/Kg		07/29/21 09:H9	07/31/21 10:3u	1
,Gf XdCu-C10									
Die5el f ange Xrganic5,X&er	<H0.0	U	H0.0		mg/Kg		07/29/21 09:H9	07/31/21 10:3u	1
C10-C28d									
Xll f ange Xrganic5,X&er C28-C3ud	<H0.0	U	H0.0		mg/Kg		07/29/21 09:H9	07/31/21 10:3u	1
Total Tpp	<H0.0	U	H0.0		mg/Kg		07/29/21 09:H9	07/31/21 10:3u	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-i Qorooht ne	10+		50 - 1+0	05732731 028 2	057-1731 108-D	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

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

Lab Sample ID: MB 880-5789/1-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5789

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-aerTCenpl</i>	131		50 - 1+0	05/32/21 028 2	05/17/21 108-D	1

Lab Sample ID: LCS 880-5789/2-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Ga5oline f ange Xrganic5	1000	909.4		mg/Kg		91	70 - 130
,Gf XdCu-C10							
Die5el f ange Xrganic5 ,X&er	1000	9Hu.3		mg/Kg		9u	70 - 130
C10-C28d							

Lab Sample ID: LCSD 880-5789/3-A

Matrix: Solid

Analysis Batch: 5913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5789

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ga5oline f ange Xrganic5			1000	912.u		mg/Kg		91	70 - 130	0	20
,Gf XdCu-C10											
Die5el f ange Xrganic5 ,X&er			1000	992.H		mg/Kg		99	70 - 130	4	20
C10-C28d											

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6009/1-A

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			08/03/21 17:4H	1

Lab Sample ID: LCS 880-6009/2-A

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H0	229.2		mg/Kg		92	90 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-6009/3-A

Matrix: Solid

Analysis Batch: 6019

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	229.7		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-6010/1-A

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			08/03/21 23:Hu	1

Lab Sample ID: LCS 880-6010/2-A

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Csloriye	2H0	231.8		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-6010/3-A

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	233.H		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-1009-2 MS

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Csloriye	HHH		2H0	30u.1		mg/Kg		100	90 - 110		

Lab Sample ID: 890-1009-2 MSD

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	HHH		2H0	308.u		mg/Kg		101	90 - 110	1	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

GC VOA

Prep Batch: 5729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5729/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-3	PH02	Total/NA	Solid	5035	
890-1009-4	PH02	Total/NA	Solid	5035	
890-1009-5	PH03	Total/NA	Solid	5035	
890-1009-6	PH03	Total/NA	Solid	5035	
890-1009-7	PH04	Total/NA	Solid	5035	
890-1009-8	PH04	Total/NA	Solid	5035	
890-1009-9	PH05	Total/NA	Solid	5035	
890-1009-10	PH05	Total/NA	Solid	5035	
MB 880-5730/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5730/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5730/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1009-3 MSD	PH02	Total/NA	Solid	5035	

Prep Batch: 5731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-1	PH01	Total/NA	Solid	5035	
890-1009-2	PH01	Total/NA	Solid	5035	
MB 880-5731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-3	PH02	Total/NA	Solid	8021B	5730
890-1009-4	PH02	Total/NA	Solid	8021B	5730
890-1009-5	PH03	Total/NA	Solid	8021B	5730
890-1009-6	PH03	Total/NA	Solid	8021B	5730
890-1009-7	PH04	Total/NA	Solid	8021B	5730
890-1009-8	PH04	Total/NA	Solid	8021B	5730
890-1009-9	PH05	Total/NA	Solid	8021B	5730
890-1009-10	PH05	Total/NA	Solid	8021B	5730
MB 880-5729/5-A	Method Blank	Total/NA	Solid	8021B	5729
MB 880-5730/5-A	Method Blank	Total/NA	Solid	8021B	5730
LCS 880-5730/1-A	Lab Control Sample	Total/NA	Solid	8021B	5730
LCSD 880-5730/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5730
890-1009-3 MS	PH02	Total/NA	Solid	8021B	
890-1009-3 MSD	PH02	Total/NA	Solid	8021B	5730

Analysis Batch: 5737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-1	PH01	Total/NA	Solid	8021B	5731
890-1009-2	PH01	Total/NA	Solid	8021B	5731
MB 880-5731/5-A	Method Blank	Total/NA	Solid	8021B	5731
LCS 880-5731/1-A	Lab Control Sample	Total/NA	Solid	8021B	5731
LCSD 880-5731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5731

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

GC Semi VOA

Prep Batch: 5789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-1	PH01	Total/NA	Solid	8015NM Prep	
890-1009-2	PH01	Total/NA	Solid	8015NM Prep	
890-1009-3	PH02	Total/NA	Solid	8015NM Prep	
890-1009-4	PH02	Total/NA	Solid	8015NM Prep	
890-1009-5	PH03	Total/NA	Solid	8015NM Prep	
890-1009-6	PH03	Total/NA	Solid	8015NM Prep	
890-1009-7	PH04	Total/NA	Solid	8015NM Prep	
890-1009-8	PH04	Total/NA	Solid	8015NM Prep	
890-1009-9	PH05	Total/NA	Solid	8015NM Prep	
890-1009-10	PH05	Total/NA	Solid	8015NM Prep	
MB 880-5789/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5789/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5789/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-1	PH01	Total/NA	Solid	8015B NM	5789
890-1009-2	PH01	Total/NA	Solid	8015B NM	5789
890-1009-3	PH02	Total/NA	Solid	8015B NM	5789
890-1009-4	PH02	Total/NA	Solid	8015B NM	5789
890-1009-5	PH03	Total/NA	Solid	8015B NM	5789
890-1009-6	PH03	Total/NA	Solid	8015B NM	5789
890-1009-7	PH04	Total/NA	Solid	8015B NM	5789
890-1009-8	PH04	Total/NA	Solid	8015B NM	5789
890-1009-9	PH05	Total/NA	Solid	8015B NM	5789
890-1009-10	PH05	Total/NA	Solid	8015B NM	5789
MB 880-5789/1-A	Method Blank	Total/NA	Solid	8015B NM	5789
LCS 880-5789/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5789
LCSD 880-5789/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5789

HPLC/IC

Leach Batch: 6009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-1	PH01	Soluble	Solid	DI Leach	
MB 880-6009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 6010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-2	PH01	Soluble	Solid	DI Leach	
890-1009-3	PH02	Soluble	Solid	DI Leach	
890-1009-4	PH02	Soluble	Solid	DI Leach	
890-1009-5	PH03	Soluble	Solid	DI Leach	
890-1009-6	PH03	Soluble	Solid	DI Leach	
890-1009-7	PH04	Soluble	Solid	DI Leach	
890-1009-8	PH04	Soluble	Solid	DI Leach	
890-1009-9	PH05	Soluble	Solid	DI Leach	
890-1009-10	PH05	Soluble	Solid	DI Leach	
MB 880-6010/1-A	Method Blank	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

HPLC/IC (Continued)

Leach Batch: 6010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-6010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1009-2 MS	PH01	Soluble	Solid	DI Leach	
890-1009-2 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 6019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-1	PH01	Soluble	Solid	300.0	6009
MB 880-6009/1-A	Method Blank	Soluble	Solid	300.0	6009
LCS 880-6009/2-A	Lab Control Sample	Soluble	Solid	300.0	6009
LCSD 880-6009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6009

Analysis Batch: 6020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1009-2	PH01	Soluble	Solid	300.0	6010
890-1009-3	PH02	Soluble	Solid	300.0	6010
890-1009-4	PH02	Soluble	Solid	300.0	6010
890-1009-5	PH03	Soluble	Solid	300.0	6010
890-1009-6	PH03	Soluble	Solid	300.0	6010
890-1009-7	PH04	Soluble	Solid	300.0	6010
890-1009-8	PH04	Soluble	Solid	300.0	6010
890-1009-9	PH05	Soluble	Solid	300.0	6010
890-1009-10	PH05	Soluble	Solid	300.0	6010
MB 880-6010/1-A	Method Blank	Soluble	Solid	300.0	6010
LCS 880-6010/2-A	Lab Control Sample	Soluble	Solid	300.0	6010
LCSD 880-6010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6010
890-1009-2 MS	PH01	Soluble	Solid	300.0	6010
890-1009-2 MSD	PH01	Soluble	Solid	300.0	6010

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH01

Lab Sample ID: 890-1009-1

Date Collected: 07/26/21 10:22

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 00:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6009	08/03/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1			6019	08/03/21 20:26	CH	XEN MID

Client Sample ID: PH01

Lab Sample ID: 890-1009-2

Date Collected: 07/26/21 10:25

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5731	07/28/21 08:46	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 00:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 16:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 00:12	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-1009-3

Date Collected: 07/26/21 11:28

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/28/21 23:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 16:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 00:28	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-1009-4

Date Collected: 07/26/21 11:30

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 00:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 00:34	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH03

Date Collected: 07/26/21 11:50

Date Received: 07/27/21 13:06

Lab Sample ID: 890-1009-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 00:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 00:39	CH	XEN MID

Client Sample ID: PH03

Date Collected: 07/26/21 11:53

Date Received: 07/27/21 13:06

Lab Sample ID: 890-1009-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 00:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 00:45	CH	XEN MID

Client Sample ID: PH04

Date Collected: 07/26/21 12:15

Date Received: 07/27/21 13:06

Lab Sample ID: 890-1009-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 01:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:01	CH	XEN MID

Client Sample ID: PH04

Date Collected: 07/26/21 12:20

Date Received: 07/27/21 13:06

Lab Sample ID: 890-1009-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 01:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Client Sample ID: PH05

Lab Sample ID: 890-1009-9

Date Collected: 07/26/21 12:30

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 01:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:12	CH	XEN MID

Client Sample ID: PH05

Lab Sample ID: 890-1009-10

Date Collected: 07/26/21 12:35

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 02:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5789	07/29/21 09:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5913	07/31/21 19:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:17	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1009-1
SDG: TE034821008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1009-1	PH01	Solid	07/26/21 10:22	07/27/21 13:06	- 0.5
890-1009-2	PH01	Solid	07/26/21 10:25	07/27/21 13:06	- 1
890-1009-3	PH02	Solid	07/26/21 11:28	07/27/21 13:06	- 0.5
890-1009-4	PH02	Solid	07/26/21 11:30	07/27/21 13:06	- 1
890-1009-5	PH03	Solid	07/26/21 11:50	07/27/21 13:06	- 0.5
890-1009-6	PH03	Solid	07/26/21 11:53	07/27/21 13:06	- 1
890-1009-7	PH04	Solid	07/26/21 12:15	07/27/21 13:06	- 0.5
890-1009-8	PH04	Solid	07/26/21 12:20	07/27/21 13:06	- 1
890-1009-9	PH05	Solid	07/26/21 12:30	07/27/21 13:06	- 0.5
890-1009-10	PH05	Solid	07/26/21 12:35	07/27/21 13:06	- 1



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LUMBACH
Company Name:	WSP USA	Company Name:	WFX ENERGY
Address:	3300 NORTH STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88225
Phone:	(801) 702-2329	Email:	anna.byers@wsp.com

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

Project Name:	Santa Fe	Turn Around	☒ Routine ☐ Rush	Pres. Code
Project Number:	TE034821008	Due Date:		
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm		
Sampler's Name:	ANNA BYERS	Wet Ice:	☒ Yes ☐ No	
PO #:	see comments	Thermometer ID:	71W0005	
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Correction Factor:	2.2	
Samples Received Intact:	Yes ☒ No ☐ N/A	Temperature Reading:	2.0	
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Corrected Temperature:		
Sample Custody Seals:	Yes ☒ No ☐ N/A			
Total Containers:				



890-1009 Chain of Custody

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H₂O
Cool: Cool MeOH: Me
HCL: HC HNO₃: HN
H₂SO₄: H₂ NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
PH01	S	7/24/21	10:22	0.5'	Grab	1	BTEX (EPA 8P213)
PH01			10:25	1'		1	TPH (EPA 8P15 Mod)
PH02			11:28	0.5'		1	Chloride (EPA 8P2.0)
PH02			11:30	1'		1	
PH03			11:50	0.5'		1	
PH03			11:53	1'		1	
PH04			12:15	0.5'		1	
PH04			12:20	1'		1	
PH05			12:30	0.5'		1	
PH05			12:35	1'		1	

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
TCPLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Anne Byers	Coelker	7.27.21 BSE			
3.					
5.					



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA HUMBACH
Company Name:	WSP USA	Company Name:	WFX ENERGY
Address:	3300 NORTH A STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88225
Phone:	(801) 792-2329	Email:	anna.byers@wsp.com

Program: ☐ UT/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund State of Project: _____ Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____	
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ANALYSIS REQUEST

Preservative Codes



890-1009 Chain of Custody

Project Name:	Santa Fe 8	Turn Around	☒ Routine ☐ Rush	Pre-Code	
Project Number:	TE034821008	Due Date:			
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	ANNA BYERS				
PO #:	see comments				
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID: 71706005			
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor: 2.2			
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading: 2.0			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
-----------------------	--------	--------------	--------------	-------	-----------	-----------	------------

PH01	S	7/14/21	10:22	0.5'	Grab	1	BTEX (EPA 8P213)
PH01			10:25	1'		1	TPH (EPA 8P15 Mod)
PH02			11:28	0.5'		1	Chloride (EPA 8P10)
PH02			11:30	1'		1	
PH03			11:50	0.5'		1	
PH03			11:53	1'		1	
PH04			12:15	0.5'		1	
PH04			12:20	1'		1	
PH05			12:30	0.5'		1	
PH05			12:35	1'		1	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA	Sb As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers	Joe [Signature]	7-27-21 1:30			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1009-1

SDG Number: TE034821008

Login Number: 1009

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1009-1

SDG Number: TE034821008

Login Number: 1009

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 07/28/21 10:59 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1010-1

Laboratory Sample Delivery Group: TE034821008
Client Project/Site: Santa Fe 8

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
8/6/2021 3:23:59 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Laboratory Job ID: 890-1010-1
SDG: TE034821008

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
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: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Job ID: 890-1010-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1010-1****Receipt**

The samples were received on 7/27/2021 1:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS02 (890-1010-2), FS04 (890-1010-4), FS10 (890-1010-10), (890-1009-A-3-A MS) and (890-1009-A-3-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5738 and analytical batch 880-5733 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS22 (890-1010-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS40 (890-1010-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS02 (890-1010-2), FS04 (890-1010-4), FS10 (890-1010-10), (890-1009-A-3-A MS) and (890-1009-A-3-B MSD). 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.

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS01

Lab Sample ID: 890-1010-1

Date Collected: 07/26/21 13:30

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 02:40	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 02:40	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 02:40	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 02:40	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 02:40	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 02:40	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	255		05 - 215	50-73-72 53/41	50-78-72 57/45	2
2:4-6 Fluorobenzene (Surr)	8,		05 - 215	50-73-72 53/41	50-78-72 57/45	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 13:23	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 13:23	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 13:23	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	80		05 - 215	50-78-72 21/5t	53-62-72 21/71	2
o-aerTi enpl	254		05 - 215	50-78-72 21/5t	53-62-72 21/71	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.97		mg/Kg			08/04/21 01:22	1

Client Sample ID: FS02

Lab Sample ID: 890-1010-2

Date Collected: 07/26/21 13:33

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 03:01	1
Tol6ene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 03:01	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 03:01	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 03:01	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 03:01	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 03:01	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		05 - 215	50-73-72 53/41	50-78-72 51/52	2
2:4-6 Fluorobenzene (Surr)	31		05 - 215	50-73-72 53/41	50-78-72 51/52	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS02

Lab Sample ID: 890-1010-2

Date Collected: 07/26/21 13:33

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 14:2X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 14:2X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 14:2X	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 14:2X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	85		05 - 215	50-78-72 21/5t	53-52-72 24/7t	2
o-aerTi enpl	8t		05 - 215	50-78-72 21/5t	53-52-72 24/7t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		X.00		mg/Kg			08/04/21 01:28	1

Client Sample ID: FS03

Lab Sample ID: 890-1010-3

Date Collected: 07/26/21 13:36

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 04:22	1
TolGene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 04:22	1
EtsRbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 04:22	1
m-ORene () -ORene	<0.00402	U	0.00402		mg/Kg		07/28/21 08:43	07/29/21 04:22	1
o-ORene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:43	07/29/21 04:22	1
ORene5vTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 08:43	07/29/21 04:22	1
Total BTEO	<0.00402	U	0.00402		mg/Kg		07/28/21 08:43	07/29/21 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	22,		05 - 215	50-73-72 53/41	50-78-72 54/77	2
2:4-6 Fluorobenzene (Surr)	84		05 - 215	50-73-72 53/41	50-78-72 54/77	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 14:4X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 14:4X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 14:4X	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 14:4X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	84		05 - 215	50-78-72 21/5t	53-52-72 24/4t	2
o-aerTi enpl	255		05 - 215	50-78-72 21/5t	53-52-72 24/4t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		X.04		mg/Kg			08/04/21 01:44	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS04

Lab Sample ID: 890-1010-4

Date Collected: 07/26/21 13:39

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 1 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 04:42	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 04:42	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 04:42	1
m-ORene () -ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:43	07/29/21 04:42	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 04:42	1
ORene5vTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 08:43	07/29/21 04:42	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 08:43	07/29/21 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	251		05 - 215	50-73-72 53/41	50-78-72 54/47	2
2:4-6 Fluorobenzene (Surr)	82		05 - 215	50-73-72 53/41	50-78-72 54/47	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1X:0f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1X:0f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1X:0f	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1X:0f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lorioOene	38		05 - 215	50-78-72 21/5t	53-62-72 2t /5,	2
o-aerTi enpl	81		05 - 215	50-78-72 21/5t	53-62-72 2t /5,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.8		4.98		mg/Kg			08/04/21 01:49	1

Client Sample ID: FS05

Lab Sample ID: 890-1010-5

Date Collected: 07/26/21 13:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1
TolGene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1
m-ORene () -ORene	<0.00403	U	0.00403		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1
ORene5vTotal	<0.00403	U	0.00403		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1
Total BTEO	<0.00403	U	0.00403		mg/Kg		07/28/21 08:43	07/29/21 0X:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	277		05 - 215	50-73-72 53/41	50-78-72 5t /51	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 53/41	50-78-72 5t /51	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS05

Lab Sample ID: 890-1010-5

Date Collected: 07/26/21 13:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.8	U	49.8		mg/Kg		07/29/21 13:0X	08/01/21 1X:2f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.8	U	49.8		mg/Kg		07/29/21 13:0X	08/01/21 1X:2f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.8	U	49.8		mg/Kg		07/29/21 13:0X	08/01/21 1X:2f	1
Total TPd	<49.8	U	49.8		mg/Kg		07/29/21 13:0X	08/01/21 1X:2f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	81		05 - 215	50-78-72 21/5t	53-52-72 2t /7,	2
o-aerTi enpl	80		05 - 215	50-78-72 21/5t	53-52-72 2t /7,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.5		4.9X		mg/Kg			08/04/21 02:0X	1

Client Sample ID: FS06

Lab Sample ID: 890-1010-6

Date Collected: 07/26/21 13:45

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 0X:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	27t		05 - 215	50-73-72 53/41	50-78-72 5t /71	2
2:4-6 Fluorobenzene (Surr)	81		05 - 215	50-73-72 53/41	50-78-72 5t /71	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.7	U	49.7		mg/Kg		07/29/21 13:0X	08/01/21 1X:4f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.7	U	49.7		mg/Kg		07/29/21 13:0X	08/01/21 1X:4f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.7	U	49.7		mg/Kg		07/29/21 13:0X	08/01/21 1X:4f	1
Total TPd	<49.7	U	49.7		mg/Kg		07/29/21 13:0X	08/01/21 1X:4f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	80		05 - 215	50-78-72 21/5t	53-52-72 2t /4,	2
o-aerTi enpl	257		05 - 215	50-78-72 21/5t	53-52-72 2t /4,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		X.00		mg/Kg			08/04/21 02:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS07

Lab Sample ID: 890-1010-7

Date Collected: 07/26/21 13:48

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 1 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 0X:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		05 - 215	50-73-72 53/41	50-78-72 5t /44	2
2:4-6 Fluorobenzene (Surr)	01		05 - 215	50-73-72 53/41	50-78-72 5t /44	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 1f :07	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 1f :07	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 1f :07	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 1f :07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	38		05 - 215	50-78-72 21/5t	53-62-72 2, /50	2
o-aerTi enpl	82		05 - 215	50-78-72 21/5t	53-62-72 2, /50	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.9X		mg/Kg			08/04/21 02:1f	1

Client Sample ID: FS08

Lab Sample ID: 890-1010-8

Date Collected: 07/26/21 13:51

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 2 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1
TolGene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1
m-ORene () -ORene	<0.00404	U	0.00404		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1
ORene5vTotal	<0.00404	U	0.00404		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1
Total BTEO	<0.00404	U	0.00404		mg/Kg		07/28/21 08:43	07/29/21 0f :04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	222		05 - 215	50-73-72 53/41	50-78-72 5, /54	2
2:4-6 Fluorobenzene (Surr)	33		05 - 215	50-73-72 53/41	50-78-72 5, /54	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS08

Lab Sample ID: 890-1010-8

Date Collected: 07/26/21 13:51

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: 2 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :27	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :27	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :27	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	85		05 - 215	50-78-72 21/5t	53-52-72 2, /70	2
o-aerTi enpl	81		05 - 215	50-78-72 21/5t	53-52-72 2, /70	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		4.9X		mg/Kg			08/04/21 02:22	1

Client Sample ID: FS09

Lab Sample ID: 890-1010-9

Date Collected: 07/26/21 13:54

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1
m-ORene ()-ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 0f :24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 53/41	50-78-72 5, /74	2
2:4-6 Fluorobenzene (Surr)	81		05 - 215	50-73-72 53/41	50-78-72 5, /74	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :48	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :48	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :48	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 1f :48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	8,		05 - 215	50-78-72 21/5t	53-52-72 2, /43	2
o-aerTi enpl	257		05 - 215	50-78-72 21/5t	53-52-72 2, /43	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		X01		mg/Kg			08/04/21 02:27	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS10

Lab Sample ID: 890-1010-10

Date Collected: 07/26/21 13:57

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/29/21 0f :4X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	251		05 - 215	50-73-72 53/41	50-78-72 5, /4t	2
2:4-6 Fluorobenzene (Surr)	84		05 - 215	50-73-72 53/41	50-78-72 5, /4t	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 17:08	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 17:08	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 17:08	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	85		05 - 215	50-78-72 21/5t	53-62-72 20/53	2
o-aerTi enpl	87		05 - 215	50-78-72 21/5t	53-62-72 20/53	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3810		2X3		mg/Kg			08/04/21 02:32	X

Client Sample ID: FS11

Lab Sample ID: 890-1010-11

Date Collected: 07/26/21 14:00

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1
Tol6ene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:43	07/29/21 07:0X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	223		05 - 215	50-73-72 53/41	50-78-72 50/5t	2
2:4-6 Fluorobenzene (Surr)	84		05 - 215	50-73-72 53/41	50-78-72 50/5t	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS11

Lab Sample ID: 890-1010-11

Date Collected: 07/26/21 14:00

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 17:49	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 17:49	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 17:49	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	8t		05 - 215	50-78-72 21/5t	53-52-72 20/48	2
o-aerTi enpl	88		05 - 215	50-78-72 21/5t	53-52-72 20/48	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3480		2X0		mg/Kg			08/04/21 02:38	X

Client Sample ID: FS12

Lab Sample ID: 890-1010-12

Date Collected: 07/26/21 14:03

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1
TolGene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1
EtsRbenzene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1
m-ORene () -ORene	<0.00397	U	0.00397		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1
o-ORene	<0.00198	U	0.00198		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1
ORene5vTotal	<0.00397	U	0.00397		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1
Total BTEO	<0.00397	U	0.00397		mg/Kg		07/28/21 08:43	07/29/21 07:2f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	272		05 - 215	50-73-72 53/41	50-78-72 50/7,	2
2:4-6 Fluorobenzene (Surr)	84		05 - 215	50-73-72 53/41	50-78-72 50/7,	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 18:10	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 18:10	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 18:10	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	30		05 - 215	50-78-72 21/5t	53-52-72 23/25	2
o-aerTi enpl	85		05 - 215	50-78-72 21/5t	53-52-72 23/25	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		2X3		mg/Kg			07/29/21 22:29	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS13

Lab Sample ID: 890-1010-13

Date Collected: 07/26/21 14:06

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 13:X4	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	25,		05 - 215	50-73-72 58/11	50-73-72 21/t 4	2
2:4-6 Fluorobenzene (Surr)	84		05 - 215	50-73-72 58/11	50-73-72 21/t 4	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:30	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:30	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:30	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	38		05 - 215	50-78-72 21/5t	53-62-72 23/15	2
o-aerTi enpl	84		05 - 215	50-78-72 21/5t	53-62-72 23/15	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4240		2X.0		mg/Kg			07/29/21 22:4X	X

Client Sample ID: FS14

Lab Sample ID: 890-1010-14

Date Collected: 07/26/21 14:09

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 14:14	1
TolGene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 14:14	1
EtsRbenzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 14:14	1
m-ORene () -ORene	<0.00397	U	0.00397		mg/Kg		07/28/21 09:33	07/28/21 14:14	1
o-ORene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 14:14	1
ORene5vTotal	<0.00397	U	0.00397		mg/Kg		07/28/21 09:33	07/28/21 14:14	1
Total BTEO	<0.00397	U	0.00397		mg/Kg		07/28/21 09:33	07/28/21 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	220		05 - 215	50-73-72 58/11	50-73-72 24/24	2
2:4-6 Fluorobenzene (Surr)	81		05 - 215	50-73-72 58/11	50-73-72 24/24	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS14

Lab Sample ID: 890-1010-14

Date Collected: 07/26/21 14:09

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:X1	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:X1	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:X1	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 18:X1	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	85		05 - 215	50-78-72 21/5t	53-62-72 23/t 2	2
o-aerTi enpl	84		05 - 215	50-78-72 21/5t	53-62-72 23/t 2	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		2X0		mg/Kg			07/29/21 22:X0	X

Client Sample ID: FS15

Lab Sample ID: 890-1010-15

Date Collected: 07/26/21 14:12

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1
Tol6ene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 14:3X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	220		05 - 215	50-73-72 58/11	50-73-72 24/1t	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 58/11	50-73-72 24/1t	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 19:11	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 19:11	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 19:11	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	38		05 - 215	50-78-72 21/5t	53-62-72 28/22	2
o-aerTi enpl	84		05 - 215	50-78-72 21/5t	53-62-72 28/22	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2420		2X0		mg/Kg			07/29/21 22:XX	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS16

Lab Sample ID: 890-1010-16

Date Collected: 07/26/21 14:15

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1
ORene5v Total	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 14:XX	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	25t		05 - 215	50-73-72 58/11	50-73-72 24/t t	2
2:4-6 Fluorobenzene (Surr)	8t		05 - 215	50-73-72 58/11	50-73-72 24/t t	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:32	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:32	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:32	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	80		05 - 215	50-78-72 21/5t	53-62-72 28/17	2
o-aerTi enpl	257		05 - 215	50-78-72 21/5t	53-62-72 28/17	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		24.9		mg/Kg			07/29/21 23:01	X

Client Sample ID: FS17

Lab Sample ID: 890-1010-17

Date Collected: 07/26/21 14:18

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1
Tol6ene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1
ORene5v Total	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 1X:1X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 58/11	50-73-72 2t /2t	2
2:4-6 Fluorobenzene (Surr)	255		05 - 215	50-73-72 58/11	50-73-72 2t /2t	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS17

Lab Sample ID: 890-1010-17

Date Collected: 07/26/21 14:18

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:X2	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:X2	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:X2	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 19:X2	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	38		05 - 215	50-78-72 21/5t	53-52-72 28/t 7	2
o-aerTi enpl	81		05 - 215	50-78-72 21/5t	53-52-72 28/t 7	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		X.OX		mg/Kg			07/29/21 23:0f	1

Client Sample ID: FS18

Lab Sample ID: 890-1010-18

Date Collected: 07/26/21 14:21

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1
ORene5vTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 1X:3f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	277		05 - 215	50-73-72 58/11	50-73-72 2t /1,	2
2:4-6 Fluorobenzene (Surr)	38		05 - 215	50-73-72 58/11	50-73-72 2t /1,	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 20:13	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 20:13	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 20:13	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:0X	08/01/21 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	30		05 - 215	50-78-72 21/5t	53-52-72 75/21	2
o-aerTi enpl	81		05 - 215	50-78-72 21/5t	53-52-72 75/21	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		2X.O		mg/Kg			07/29/21 23:12	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS19

Lab Sample ID: 890-1010-19

Date Collected: 07/26/21 14:24

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1
Tol6ene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1
EtsRbenzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1
m-ORene () -ORene	<0.00397	U	0.00397		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1
o-ORene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1
ORene5vTotal	<0.00397	U	0.00397		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1
Total BTEO	<0.00397	U	0.00397		mg/Kg		07/28/21 09:33	07/28/21 1X:Xf	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227		05 - 215	50-73-72 58/11	50-73-72 2t /t ,	2
2:4-6 Fluorobenzene (Surr)	255		05 - 215	50-73-72 58/11	50-73-72 2t /t ,	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:34	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:34	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:34	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	30		05 - 215	50-78-72 21/5t	53-62-72 75/14	2
o-aerTi enpl	81		05 - 215	50-78-72 21/5t	53-62-72 75/14	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		2X.2		mg/Kg			07/29/21 23:28	X

Client Sample ID: FS20

Lab Sample ID: 890-1010-20

Date Collected: 07/26/21 14:27

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1
Tol6ene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1
EtsRbenzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1
m-ORene () -ORene	<0.0039f	U	0.0039f		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1
o-ORene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1
ORene5vTotal	<0.0039f	U	0.0039f		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1
Total BTEO	<0.0039f	U	0.0039f		mg/Kg		07/28/21 09:33	07/28/21 1f :17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227		05 - 215	50-73-72 58/11	50-73-72 2, /20	2
2:4-6 Fluorobenzene (Surr)	88		05 - 215	50-73-72 58/11	50-73-72 2, /20	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS20

Lab Sample ID: 890-1010-20

Date Collected: 07/26/21 14:27

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:X4	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:X4	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:X4	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:0X	08/01/21 20:X4	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	8t		05 - 215	50-78-72 21/5t	53-62-72 75/t 4	2
o-aerTi enpl	255		05 - 215	50-78-72 21/5t	53-62-72 75/t 4	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1520		24.8		mg/Kg			07/29/21 23:33	X

Client Sample ID: FS21

Lab Sample ID: 890-1010-21

Date Collected: 07/26/21 14:30

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 09:33	07/28/21 1f :37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	275		05 - 215	50-73-72 58/11	50-73-72 2, /10	2
2:4-6 Fluorobenzene (Surr)	82		05 - 215	50-73-72 58/11	50-73-72 2, /10	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 13:23	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 13:23	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 13:23	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	84		05 - 215	50-78-72 21/77	53-62-72 21/71	2
o-aerTi enpl	258		05 - 215	50-78-72 21/77	53-62-72 21/71	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	336		X0.0		mg/Kg			07/29/21 23:49	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS22

Lab Sample ID: 890-1010-22

Date Collected: 07/26/21 14:33

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1
ORene5vTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 1f :X7	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	210	S2y	05 - 215	50-73-72 58/11	50-73-72 2, /t 0	2
2:4-6 Fluorobenzene (Surr)	3t		05 - 215	50-73-72 58/11	50-73-72 2, /t 0	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 14:2X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 14:2X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 14:2X	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 14:2X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lorioOene	83		05 - 215	50-78-72 21/77	53-62-72 24/7t	2
o-aerTi enpl	225		05 - 215	50-78-72 21/77	53-62-72 24/7t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		24.8		mg/Kg			07/29/21 23:XX	X

Client Sample ID: FS23

Lab Sample ID: 890-1010-23

Date Collected: 07/26/21 14:36

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 18:47	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 18:47	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 18:47	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 18:47	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 18:47	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 18:47	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250		05 - 215	50-73-72 58/11	50-73-72 23/40	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 58/11	50-73-72 23/40	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS23

Lab Sample ID: 890-1010-23

Date Collected: 07/26/21 14:36

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 14:4X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 14:4X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 14:4X	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 14:4X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	254		05 - 215	50-78-72 21/77	53-52-72 24/4t	2
o-aerTi enpl	220		05 - 215	50-78-72 21/77	53-52-72 24/4t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6110		24.9		mg/Kg			07/30/21 00:00	X

Client Sample ID: FS24

Lab Sample ID: 890-1010-24

Date Collected: 07/26/21 14:39

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 19:08	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 19:08	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 19:08	1
m-ORene ()-ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 09:33	07/28/21 19:08	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 19:08	1
ORene5vTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 09:33	07/28/21 19:08	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 09:33	07/28/21 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 58/11	50-73-72 28/53	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 58/11	50-73-72 28/53	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1X:0f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1X:0f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1X:0f	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1X:0f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	25t		05 - 215	50-78-72 21/77	53-52-72 2t /5,	2
o-aerTi enpl	228		05 - 215	50-78-72 21/77	53-52-72 2t /5,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	954		X.02		mg/Kg			07/30/21 00:0f	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS25

Lab Sample ID: 890-1010-25

Date Collected: 07/26/21 01:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 19:28	1
TolGene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 19:28	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 19:28	1
m-ORene () -ORene	<0.00403	U	0.00403		mg/Kg		07/28/21 09:33	07/28/21 19:28	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 19:28	1
ORene5vTotal	<0.00403	U	0.00403		mg/Kg		07/28/21 09:33	07/28/21 19:28	1
Total BTEO	<0.00403	U	0.00403		mg/Kg		07/28/21 09:33	07/28/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250		05 - 215	50-73-72 58/11	50-73-72 28/73	2
2:4-6 Fluorobenzene (Surr)	8,		05 - 215	50-73-72 58/11	50-73-72 28/73	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.8	U	49.8		mg/Kg		07/29/21 13:22	08/01/21 1X:2f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.8	U	49.8		mg/Kg		07/29/21 13:22	08/01/21 1X:2f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.8	U	49.8		mg/Kg		07/29/21 13:22	08/01/21 1X:2f	1
Total TPd	<49.8	U	49.8		mg/Kg		07/29/21 13:22	08/01/21 1X:2f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lorioOene	25,		05 - 215	50-78-72 21/77	53-62-72 2t /7,	2
o-aerTi enpl	228		05 - 215	50-78-72 21/77	53-62-72 2t /7,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3860		2X3		mg/Kg			07/30/21 00:11	X

Client Sample ID: FS26

Lab Sample ID: 890-1010-26

Date Collected: 07/26/21 14:45

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 19:49	1
TolGene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 19:49	1
EtsRbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 19:49	1
m-ORene () -ORene	<0.00402	U	0.00402		mg/Kg		07/28/21 09:33	07/28/21 19:49	1
o-ORene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 19:49	1
ORene5vTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 09:33	07/28/21 19:49	1
Total BTEO	<0.00402	U	0.00402		mg/Kg		07/28/21 09:33	07/28/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 58/11	50-73-72 28/48	2
2:4-6 Fluorobenzene (Surr)	88		05 - 215	50-73-72 58/11	50-73-72 28/48	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS26

Lab Sample ID: 890-1010-26

Date Collected: 07/26/21 14:45

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.7	U	49.7		mg/Kg		07/29/21 13:22	08/01/21 1X:4f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.7	U	49.7		mg/Kg		07/29/21 13:22	08/01/21 1X:4f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.7	U	49.7		mg/Kg		07/29/21 13:22	08/01/21 1X:4f	1
Total TPd	<49.7	U	49.7		mg/Kg		07/29/21 13:22	08/01/21 1X:4f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	251		05 - 215	50-78-72 21/77	53-52-72 2t /4,	2
o-aerTi enpl	228		05 - 215	50-78-72 21/77	53-52-72 2t /4,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230		24.9		mg/Kg			07/30/21 00:1f	X

Client Sample ID: FS27

Lab Sample ID: 890-1010-27

Date Collected: 07/26/21 14:48

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 20:09	1
Tol6ene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 20:09	1
EtsRbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 20:09	1
m-ORene () -ORene	<0.00402	U	0.00402		mg/Kg		07/28/21 09:33	07/28/21 20:09	1
o-ORene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:33	07/28/21 20:09	1
ORene5vTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 09:33	07/28/21 20:09	1
Total BTEO	<0.00402	U	0.00402		mg/Kg		07/28/21 09:33	07/28/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227		05 - 215	50-73-72 58/11	50-73-72 75/58	2
2:4-6 Fluorobenzene (Surr)	255		05 - 215	50-73-72 58/11	50-73-72 75/58	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 1f :07	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 1f :07	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 1f :07	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 1f :07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	255		05 - 215	50-78-72 21/77	53-52-72 2 , /50	2
o-aerTi enpl	22t		05 - 215	50-78-72 21/77	53-52-72 2 , /50	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		2X0		mg/Kg			07/30/21 00:22	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS28

Lab Sample ID: 890-1010-28

Date Collected: 07/26/21 14:51

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 20:29	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 20:29	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 20:29	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 20:29	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 20:29	1
ORene5vTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 20:29	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 09:33	07/28/21 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225		05 - 215	50-73-72 58/11	50-73-72 75/78	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 58/11	50-73-72 75/78	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :27	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :27	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :27	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	80		05 - 215	50-78-72 21/77	53-62-72 2, /70	2
o-aerTi enpl	221		05 - 215	50-78-72 21/77	53-62-72 2, /70	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280	F1	2X3		mg/Kg			07/29/21 17:07	X

Client Sample ID: FS29

Lab Sample ID: 890-1010-29

Date Collected: 07/26/21 14:54

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 20:X0	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	27t		05 - 215	50-73-72 58/11	50-73-72 75/t 5	2
2:4-6 Fluorobenzene (Surr)	81		05 - 215	50-73-72 58/11	50-73-72 75/t 5	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS29

Lab Sample ID: 890-1010-29

Date Collected: 07/26/21 14:54

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :48	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :48	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :48	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 1f :48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	83		05 - 215	50-78-72 21/77	53-52-72 2, /43	2
o-aerTi enpl	22t		05 - 215	50-78-72 21/77	53-52-72 2, /43	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5440		49.8		mg/Kg			07/29/21 17:24	10

Client Sample ID: FS30

Lab Sample ID: 890-1010-30

Date Collected: 07/26/21 14:57

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 21:10	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 21:10	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 21:10	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 21:10	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:33	07/28/21 21:10	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 21:10	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:33	07/28/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227		05 - 215	50-73-72 58/11	50-73-72 72/25	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215	50-73-72 58/11	50-73-72 72/25	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 17:08	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 17:08	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 17:08	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	25,		05 - 215	50-78-72 21/77	53-52-72 20/53	2
o-aerTi enpl	275		05 - 215	50-78-72 21/77	53-52-72 20/53	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2880		24.8		mg/Kg			07/29/21 17:29	X

E6ro&n5 OencovCarl5bap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS31

Lab Sample ID: 890-1010-31

Date Collected: 07/26/21 15:00

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 21:31	1
TolGene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 21:31	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 21:31	1
m-ORene () -ORene	<0.00403	U	0.00403		mg/Kg		07/28/21 09:33	07/28/21 21:31	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:33	07/28/21 21:31	1
ORene5vTotal	<0.00403	U	0.00403		mg/Kg		07/28/21 09:33	07/28/21 21:31	1
Total BTEO	<0.00403	U	0.00403		mg/Kg		07/28/21 09:33	07/28/21 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225		05 - 215	50-73-72 58/11	50-73-72 72/12	2
2:4-6 Fluorobenzene (Surr)	252		05 - 215	50-73-72 58/11	50-73-72 72/12	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 17:49	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 17:49	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 17:49	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	224		05 - 215	50-78-72 21/77	53-62-72 20/48	2
o-aerTi enpl	212	S2y	05 - 215	50-78-72 21/77	53-62-72 20/48	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5320		2X2		mg/Kg			07/29/21 17:3X	X

Client Sample ID: FS32

Lab Sample ID: 890-1010-32

Date Collected: 07/26/21 15:03

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1
m-ORene () -ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1
ORene5vTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 09:33	07/28/21 21:X1	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 58/11	50-73-72 72/t 2	2
2:4-6 Fluorobenzene (Surr)	88		05 - 215	50-73-72 58/11	50-73-72 72/t 2	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS32

Lab Sample ID: 890-1010-32

Date Collected: 07/26/21 15:03

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 18:10	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 18:10	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 18:10	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	87		05 - 215	50-78-72 21/77	53-62-72 23/25	2
o-aerTi enpl	258		05 - 215	50-78-72 21/77	53-62-72 23/25	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3840		2X3		mg/Kg			07/29/21 17:40	X

Client Sample ID: FS33

Lab Sample ID: 890-1010-33

Date Collected: 07/26/21 15:06

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1
ORene5vTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 03:X1	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	254		05 - 215	50-73-72 53/48	50-78-72 51/t 2	2
2:4-6 Fluorobenzene (Surr)	00		05 - 215	50-73-72 53/48	50-78-72 51/t 2	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:30	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:30	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:30	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	87		05 - 215	50-78-72 21/77	53-62-72 23/15	2
o-aerTi enpl	254		05 - 215	50-78-72 21/77	53-62-72 23/15	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		2X0		mg/Kg			07/29/21 17:X7	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS34

Lab Sample ID: 890-1010-34

Date Collected: 07/26/21 15:09

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
Toluene	0.00262		0.00200		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
ORene5v Total	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 04:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224		05 - 215				50-73-72 53/48	50-78-72 54/27	2
2:4-6 Fluorobenzene (Surr)	30		05 - 215				50-73-72 53/48	50-78-72 54/27	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range hydrocarbons	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:X1	1
YGHHC-C10									
Diesel Range hydrocarbons, er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:X1	1
C10-C28u									
High Range hydrocarbons, er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:X1	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 18:X1	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Diisooctene	81		05 - 215				50-78-72 21/77	53-62-72 23/t 2	2
o-aerTl enpl	258		05 - 215				50-78-72 21/77	53-62-72 23/t 2	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	774		4.9f		mg/Kg			07/29/21 18:02	1

Client Sample ID: FS35

Lab Sample ID: 890-1010-35

Date Collected: 07/26/21 15:12

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
Toluene	0.00252		0.00202		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
m-ORene () -ORene	<0.00403	U	0.00403		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
ORene5v Total	<0.00403	U	0.00403		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
Total BTEO	<0.00403	U	0.00403		mg/Kg		07/28/21 08:49	07/29/21 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	270		05 - 215				50-73-72 53/48	50-78-72 54/11	2
2:4-6 Fluorobenzene (Surr)	220		05 - 215				50-73-72 53/48	50-78-72 54/11	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS35

Lab Sample ID: 890-1010-35

Date Collected: 07/26/21 15:12

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 19:11	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 19:11	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 19:11	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	80		05 - 215	50-78-72 21/77	53-52-72 28/22	2
o-aerTi enpl	227		05 - 215	50-78-72 21/77	53-52-72 28/22	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		24.8		mg/Kg			07/29/21 18:08	X

Client Sample ID: FS36

Lab Sample ID: 890-1010-36

Date Collected: 07/26/21 15:18

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1
Tol6ene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 04:X3	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	22t		05 - 215	50-73-72 53/48	50-78-72 54/t 1	2
2:4-6 Fluorobenzene (Surr)	8t		05 - 215	50-73-72 53/48	50-78-72 54/t 1	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:32	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:32	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:32	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	275		05 - 215	50-78-72 21/77	53-52-72 28/17	2
o-aerTi enpl	245	S2y	05 - 215	50-78-72 21/77	53-52-72 28/17	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		4.98		mg/Kg			07/29/21 18:13	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS37

Lab Sample ID: 890-1010-37

Date Collected: 07/26/21 15:21

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 0X:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224		05 - 215	50-73-72 53/48	50-78-72 5t /24	2
2:4-6 Fluorobenzene (Surr)	250		05 - 215	50-73-72 53/48	50-78-72 5t /24	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:X2	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:X2	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:X2	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 19:X2	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	251		05 - 215	50-78-72 21/77	53-62-72 28/t 7	2
o-aerTi enpl	275		05 - 215	50-78-72 21/77	53-62-72 28/t 7	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1790		2X0		mg/Kg			07/29/21 18:19	X

Client Sample ID: FS38

Lab Sample ID: 890-1010-38

Date Collected: 07/26/21 15:24

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1
o-Xylene	0.00410		0.00199		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1
Xylenes, Total	0.00410		0.00398		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1
Total BTEX	0.00410		0.00398		mg/Kg		07/28/21 08:49	07/29/21 0X:3X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	274		05 - 215	50-73-72 53/48	50-78-72 5t /1t	2
2:4-6 Fluorobenzene (Surr)	221		05 - 215	50-73-72 53/48	50-78-72 5t /1t	2

E6ro&n5 OencovCarl5bap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS38

Lab Sample ID: 890-1010-38

Date Collected: 07/26/21 15:24

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 20:13	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 20:13	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 20:13	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 13:22	08/01/21 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	88		05 - 215	50-78-72 21/77	53-52-72 75/21	2
o-aerTi enpl	22t		05 - 215	50-78-72 21/77	53-52-72 75/21	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		4.9f		mg/Kg			07/29/21 18:24	1

Client Sample ID: FS39

Lab Sample ID: 890-1010-39

Date Collected: 07/26/21 15:27

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1
Ethylbenzene	0.00567		0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1
ORene5vTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1
Total BTEX	0.00567		0.00399		mg/Kg		07/28/21 08:49	07/29/21 0X:XX	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	2t 7	S2y	05 - 215	50-73-72 53/48	50-78-72 5t /t t	2
2:4-6 Fluorobenzene (Surr)	220		05 - 215	50-73-72 53/48	50-78-72 5t /t t	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:34	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:34	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:34	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	251		05 - 215	50-78-72 21/77	53-52-72 75/14	2
o-aerTi enpl	275		05 - 215	50-78-72 21/77	53-52-72 75/14	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3810		2X2		mg/Kg			07/29/21 18:41	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS40

Lab Sample ID: 890-1010-40

Date Collected: 07/26/21 15:30

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
Toluene	0.00389		0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
Ethylbenzene	0.0274		0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
m-Xylene & p-Xylene	0.00403		0.00398		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
o-Xylene	0.00220		0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
Xylenes, Total	0.00623		0.00398		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
Total BTEX	0.0375		0.00398		mg/Kg		07/28/21 08:49	07/29/21 0f :1f	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	2t ,	S2y	05 - 215				50-73-72 53/48	50-78-72 5, /2,	2
2:4-6 Fluorobenzene (Surr)	02		05 - 215				50-73-72 53/48	50-78-72 5, /2,	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:X4	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:X4	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:X4	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 13:22	08/01/21 20:X4	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Di lrooOene	254		05 - 215				50-78-72 21/77	53-62-72 75/t 4	2
o-aerTi enpl	275		05 - 215				50-78-72 21/77	53-62-72 75/t 4	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.7		4.9f		mg/Kg			07/29/21 18:4f	1

Client Sample ID: FS41

Lab Sample ID: 890-1010-41

Date Collected: 07/26/21 15:33

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
Tol6ene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
ORene5v Total	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 0f :37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	253		05 - 215				50-73-72 53/48	50-78-72 5, /10	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215				50-73-72 53/48	50-78-72 5, /10	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS41

Lab Sample ID: 890-1010-41

Date Collected: 07/26/21 15:33

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 11:Xf	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 11:Xf	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 11:Xf	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 11:Xf	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	85		05 - 215	50-78-72 2, /45	50-75-72 22/t ,	2
o-aerTi enpl	25t		05 - 215	50-78-72 2, /45	50-75-72 22/t ,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220		2X0		mg/Kg			07/29/21 19:03	X

Client Sample ID: FS42

Lab Sample ID: 890-1010-42

Date Collected: 07/26/21 15:36

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1
m-ORene () -ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1
ORene5vTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 0f :X7	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	275		05 - 215	50-73-72 53/48	50-78-72 5, /t 0	2
2:4-6 Fluorobenzene (Surr)	228		05 - 215	50-73-72 53/48	50-78-72 5, /t 0	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 14:23	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 14:23	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 14:23	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	33		05 - 215	50-78-72 2, /45	50-75-72 24/71	2
o-aerTi enpl	254		05 - 215	50-78-72 2, /45	50-75-72 24/71	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4960		49.8		mg/Kg			07/29/21 19:08	10

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS43

Lab Sample ID: 890-1010-43

Date Collected: 07/26/21 15:39

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 08:18	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 08:18	1
Ethylbenzene	0.00246		0.00199		mg/Kg		07/28/21 08:49	07/29/21 08:18	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 08:18	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 08:18	1
ORene5v Total	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 08:18	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227		05 - 215	50-73-72 53/48	50-78-72 53/23	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 53/48	50-78-72 53/23	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 14:44	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 14:44	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 14:44	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lroooCtne	8,		05 - 215	50-78-72 2, /45	50-75-72 24/44	2
o-aerTi enpl	227		05 - 215	50-78-72 2, /45	50-75-72 24/44	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6690		49.9		mg/Kg			07/29/21 19:14	10

Client Sample ID: FS44

Lab Sample ID: 890-1010-44

Date Collected: 07/26/21 15:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 08:39	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 08:39	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 08:39	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 08:39	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 08:39	1
ORene5v Total	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 08:39	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 08:49	07/29/21 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	271		05 - 215	50-73-72 53/48	50-78-72 53/18	2
2:4-6 Fluorobenzene (Surr)	257		05 - 215	50-73-72 53/48	50-78-72 53/18	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS44

Lab Sample ID: 890-1010-44

Date Collected: 07/26/21 15:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1X:0X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1X:0X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1X:0X	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1X:0X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooQcne	85		05 - 215	50-78-72 2, /45	50-75-72 2t /5t	2
o-aerTi enpl	250		05 - 215	50-78-72 2, /45	50-75-72 2t /5t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8040		49.8		mg/Kg			07/29/21 19:19	10

Client Sample ID: FS45

Lab Sample ID: 890-1010-45

Date Collected: 07/26/21 15:45

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1
Tol6ene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1
EtsRbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1
m-ORene () -ORene	<0.00402	U	0.00402		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1
o-ORene	<0.00201	U	0.00201		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1
ORene5vTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1
Total BTEO	<0.00402	U	0.00402		mg/Kg		07/28/21 08:49	07/29/21 08:X9	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	22t		05 - 215	50-73-72 53/48	50-78-72 53/t 8	2
2:4-6 Fluorobenzene (Surr)	225		05 - 215	50-73-72 53/48	50-78-72 53/t 8	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.8	U	49.8		mg/Kg		07/29/21 1f :40	07/30/21 1X:2f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.8	U	49.8		mg/Kg		07/29/21 1f :40	07/30/21 1X:2f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.8	U	49.8		mg/Kg		07/29/21 1f :40	07/30/21 1X:2f	1
Total TPd	<49.8	U	49.8		mg/Kg		07/29/21 1f :40	07/30/21 1X:2f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooQcne	8t		05 - 215	50-78-72 2, /45	50-75-72 2t /7,	2
o-aerTi enpl	225		05 - 215	50-78-72 2, /45	50-75-72 2t /7,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6830		49.8		mg/Kg			07/29/21 19:2X	10

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS46

Lab Sample ID: 890-1010-46

Date Collected: 07/26/21 15:48

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 09:20	1
TolGene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 09:20	1
Ethylbenzene	0.00234		0.00202		mg/Kg		07/28/21 08:49	07/29/21 09:20	1
m-ORene () -ORene	<0.00404	U	0.00404		mg/Kg		07/28/21 08:49	07/29/21 09:20	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 09:20	1
ORene5v Total	<0.00404	U	0.00404		mg/Kg		07/28/21 08:49	07/29/21 09:20	1
Total BTEO	<0.00404	U	0.00404		mg/Kg		07/28/21 08:49	07/29/21 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	271		05 - 215	50-73-72 53/48	50-78-72 58/75	2
2:4-6 Fluorobenzene (Surr)	253		05 - 215	50-73-72 53/48	50-78-72 58/75	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.7	U	49.7		mg/Kg		07/29/21 1f :40	07/30/21 1X:47	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.7	U	49.7		mg/Kg		07/29/21 1f :40	07/30/21 1X:47	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.7	U	49.7		mg/Kg		07/29/21 1f :40	07/30/21 1X:47	1
Total TPd	<49.7	U	49.7		mg/Kg		07/29/21 1f :40	07/30/21 1X:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	82		05 - 215	50-78-72 2, /45	50-75-72 2t /40	2
o-aerTi enpl	25,		05 - 215	50-78-72 2, /45	50-75-72 2t /40	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4320		2X.0		mg/Kg			07/29/21 19:30	X

Client Sample ID: FS47

Lab Sample ID: 890-1010-47

Date Collected: 07/26/21 15:51

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 09:40	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 09:40	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 09:40	1
m-ORene () -ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 09:40	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 09:40	1
ORene5v Total	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 09:40	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224		05 - 215	50-73-72 53/48	50-78-72 58/45	2
2:4-6 Fluorobenzene (Surr)	82		05 - 215	50-73-72 53/48	50-78-72 58/45	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS47

Lab Sample ID: 890-1010-47

Date Collected: 07/26/21 15:51

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 1f :29	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 1f :29	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 1f :29	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 1f :29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	83		05 - 215	50-78-72 2, /45	50-75-72 2, /78	2
o-aerTi enpl	253		05 - 215	50-78-72 2, /45	50-75-72 2, /78	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		X.01		mg/Kg			07/29/21 19:3f	1

Client Sample ID: FS48

Lab Sample ID: 890-1010-48

Date Collected: 07/26/21 15:54

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:01	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:01	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:01	1
m-ORene () -ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 10:01	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:01	1
ORene5vTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 10:01	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 08:49	07/29/21 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	270		05 - 215	50-73-72 53/48	50-78-72 25/52	2
2:4-6 Fluorobenzene (Surr)	253		05 - 215	50-73-72 53/48	50-78-72 25/52	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1f :X1	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1f :X1	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1f :X1	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 1f :X1	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	25t		05 - 215	50-78-72 2, /45	50-75-72 2, /t 2	2
o-aerTi enpl	27t		05 - 215	50-78-72 2, /45	50-75-72 2, /t 2	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	446		X.02		mg/Kg			07/29/21 20:X3	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS49

Lab Sample ID: 890-1010-49

Date Collected: 07/26/21 15:57

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 10:21	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 10:21	1
Ethylbenzene	0.00457		0.00199		mg/Kg		07/28/21 08:49	07/29/21 10:21	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 10:21	1
o-Xylene	0.0121		0.00199		mg/Kg		07/28/21 08:49	07/29/21 10:21	1
Xylenes, Total	0.0121		0.00398		mg/Kg		07/28/21 08:49	07/29/21 10:21	1
Total BTEX	0.0167		0.00398		mg/Kg		07/28/21 08:49	07/29/21 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	272		05 - 215	50-73-72 53/48	50-78-72 25/72	2
2:4-6 Fluorobenzene (Surr)	0,		05 - 215	50-73-72 53/48	50-78-72 25/72	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:12	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:12	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:12	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	85		05 - 215	50-78-72 2, /45	50-75-72 20/27	2
o-aerTi enpl	25,		05 - 215	50-78-72 2, /45	50-75-72 20/27	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2910		2X1		mg/Kg			07/29/21 21:09	X

Client Sample ID: FS50

Lab Sample ID: 890-1010-50

Date Collected: 07/26/21 16:00

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:42	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:42	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:42	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 10:42	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 10:42	1
ORene5v Total	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 10:42	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	220		05 - 215	50-73-72 53/48	50-78-72 25/47	2
2:4-6 Fluorobenzene (Surr)	25t		05 - 215	50-73-72 53/48	50-78-72 25/47	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS50

Lab Sample ID: 890-1010-50

Date Collected: 07/26/21 16:00

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 17:33	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 17:33	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 17:33	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	37		05 - 215	50-78-72 2, /45	50-75-72 20/11	2
o-aerTi enpl	8,		05 - 215	50-78-72 2, /45	50-75-72 20/11	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3260		2X.0		mg/Kg			07/29/21 21:1X	X

Client Sample ID: FS51

Lab Sample ID: 890-1010-51

Date Collected: 07/26/21 16:03

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 11:02	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 11:02	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 11:02	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 11:02	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 08:49	07/29/21 11:02	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 11:02	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 08:49	07/29/21 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	222		05 - 215	50-73-72 53/48	50-78-72 22/57	2
2:4-6 Fluorobenzene (Surr)	252		05 - 215	50-73-72 53/48	50-78-72 22/57	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:X4	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:X4	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:X4	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 17:X4	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	3,		05 - 215	50-78-72 2, /45	50-75-72 20/t 4	2
o-aerTi enpl	255		05 - 215	50-78-72 2, /45	50-75-72 20/t 4	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		24.9		mg/Kg			07/29/21 21:20	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS52

Lab Sample ID: 890-1010-52

Date Collected: 07/26/21 16:06

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 11:23	1
Tol6ene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 11:23	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 11:23	1
m-ORene () -ORene	<0.00404	U	0.00404		mg/Kg		07/28/21 08:49	07/29/21 11:23	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 08:49	07/29/21 11:23	1
ORene5vTotal	<0.00404	U	0.00404		mg/Kg		07/28/21 08:49	07/29/21 11:23	1
Total BTEO	<0.00404	U	0.00404		mg/Kg		07/28/21 08:49	07/29/21 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	27,		05 - 215	50-73-72 53/48	50-78-72 22/71	2
2:4-6 Fluorobenzene (Surr)	25t		05 - 215	50-73-72 53/48	50-78-72 22/71	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 18:1X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 18:1X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 18:1X	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f :40	07/30/21 18:1X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	30		05 - 215	50-78-72 2, /45	50-75-72 23/2t	2
o-aerTi enpl	251		05 - 215	50-78-72 2, /45	50-75-72 23/2t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		2X0		mg/Kg			07/29/21 21:2f	X

Client Sample ID: FS53

Lab Sample ID: 890-1010-53

Date Collected: 07/26/21 16:09

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		07/28/21 09:41	07/29/21 01:28	1
Tol6ene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 01:28	1
EtsRbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 01:28	1
m-ORene () -ORene	<0.00402	U	0.00402		mg/Kg		07/28/21 09:41	07/29/21 01:28	1
o-ORene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 01:28	1
ORene5vTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 09:41	07/29/21 01:28	1
Total BTEO	<0.00402	U	0.00402		mg/Kg		07/28/21 09:41	07/29/21 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225		05 - 215	50-73-72 58/42	50-78-72 52/73	2
2:4-6 Fluorobenzene (Surr)	8,		05 - 215	50-73-72 58/42	50-78-72 52/73	2

E6ro&n5 OencovCarl5bap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS53

Lab Sample ID: 890-1010-53

Date Collected: 07/26/21 16:09

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:3f	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:3f	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:3f	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:3f	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	87		05 - 215	50-78-72 2, /45	50-75-72 23/1,	2
o-aerTi enpl	25t		05 - 215	50-78-72 2, /45	50-75-72 23/1,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		X.00		mg/Kg			07/29/21 21:31	1

Client Sample ID: FS54

Lab Sample ID: 890-1010-54

Date Collected: 07/26/21 16:12

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 01:48	1
TolGene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 01:48	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 01:48	1
m-ORene () -ORene	<0.00404	U	0.00404		mg/Kg		07/28/21 09:41	07/29/21 01:48	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 01:48	1
ORene5vTotal	<0.00404	U	0.00404		mg/Kg		07/28/21 09:41	07/29/21 01:48	1
Total BTEO	<0.00404	U	0.00404		mg/Kg		07/28/21 09:41	07/29/21 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	221		05 - 215	50-73-72 58/42	50-78-72 52/43	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 58/42	50-78-72 52/43	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:X7	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:X7	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:X7	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 1f:40	07/30/21 18:X7	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	85		05 - 215	50-78-72 2, /45	50-75-72 23/t 0	2
o-aerTi enpl	257		05 - 215	50-78-72 2, /45	50-75-72 23/t 0	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650	F1	2X2		mg/Kg			07/29/21 21:37	X

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS55

Lab Sample ID: 890-1010-55

Date Collected: 07/26/21 16:15

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:09	1
TolGene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:09	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:09	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 09:41	07/29/21 02:09	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:09	1
ORene5v Total	<0.00399	U	0.00399		mg/Kg		07/28/21 09:41	07/29/21 02:09	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 09:41	07/29/21 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225		05 - 215	50-73-72 58/42	50-78-72 57/58	2
2:4-6 Fluorobenzene (Surr)	80		05 - 215	50-73-72 58/42	50-78-72 57/58	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 19:18	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 19:18	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 19:18	1
Total TPd	<49.9	U	49.9		mg/Kg		07/29/21 1f :40	07/30/21 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	85		05 - 215	50-78-72 2, /45	50-75-72 28/23	2
o-aerTi enpl	255		05 - 215	50-78-72 2, /45	50-75-72 28/23	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		24.9		mg/Kg			07/29/21 21:X3	X

Client Sample ID: FS56

Lab Sample ID: 890-1010-56

Date Collected: 07/26/21 16:18

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 02:29	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 02:29	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 02:29	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 02:29	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 02:29	1
ORene5v Total	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 02:29	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	253		05 - 215	50-73-72 58/42	50-78-72 57/78	2
2:4-6 Fluorobenzene (Surr)	8t		05 - 215	50-73-72 58/42	50-78-72 57/78	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS56

Lab Sample ID: 890-1010-56

Date Collected: 07/26/21 16:18

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/29/21 1f:40	07/30/21 19:39	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/29/21 1f:40	07/30/21 19:39	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/29/21 1f:40	07/30/21 19:39	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/29/21 1f:40	07/30/21 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	87		05 - 215	50-78-72 2, /45	50-75-72 28/18	2
o-aerTi enpl	88		05 - 215	50-78-72 2, /45	50-75-72 28/18	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	767		24.9		mg/Kg			07/29/21 21:X9	X

Client Sample ID: FS57

Lab Sample ID: 890-1010-57

Date Collected: 07/26/21 16:21

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 09:41	07/29/21 02:X0	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250		05 - 215	50-73-72 58/42	50-78-72 57/t 5	2
2:4-6 Fluorobenzene (Surr)	84		05 - 215	50-73-72 58/42	50-78-72 57/t 5	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 1f:31	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 1f:31	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 1f:31	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 1f:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooOene	82		05 - 215	50-73-72 2, /13	50-72-72 2, /12	2
o-aerTi enpl	85		05 - 215	50-73-72 2, /13	50-72-72 2, /12	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	879		X0.0		mg/Kg			07/29/21 22:1X	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS58

Lab Sample ID: 890-1010-58

Date Collected: 07/26/21 16:24

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:10	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:10	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:10	1
m-ORene () -ORene	<0.00399	U	0.00399		mg/Kg		07/28/21 09:41	07/29/21 03:10	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:10	1
ORene5vTotal	<0.00399	U	0.00399		mg/Kg		07/28/21 09:41	07/29/21 03:10	1
Total BTEO	<0.00399	U	0.00399		mg/Kg		07/28/21 09:41	07/29/21 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 58/42	50-78-72 51/25	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215	50-73-72 58/42	50-78-72 51/25	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 1f:X2	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 1f:X2	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 1f:X2	1
Total TPd	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 1f:X2	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	85		05 - 215	50-73-72 2, /13	50-72-72 2, /t 7	2
o-aerTi enpl	38		05 - 215	50-73-72 2, /13	50-72-72 2, /t 7	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		4.9X		mg/Kg			07/29/21 22:21	1

Client Sample ID: FS59

Lab Sample ID: 890-1010-59

Date Collected: 07/26/21 16:27

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:30	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:30	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:30	1
m-ORene () -ORene	<0.00401	U	0.00401		mg/Kg		07/28/21 09:41	07/29/21 03:30	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 03:30	1
ORene5vTotal	<0.00401	U	0.00401		mg/Kg		07/28/21 09:41	07/29/21 03:30	1
Total BTEO	<0.00401	U	0.00401		mg/Kg		07/28/21 09:41	07/29/21 03:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258		05 - 215	50-73-72 58/42	50-78-72 51/15	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215	50-73-72 58/42	50-78-72 51/15	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS59

Lab Sample ID: 890-1010-59

Date Collected: 07/26/21 16:27

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:13	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:13	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:13	1
Total TPd	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	87		05 - 215	50-73-72 2, /13	50-72-72 20/21	2
o-aerTi enpl	85		05 - 215	50-73-72 2, /13	50-72-72 20/21	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2840		2X1		mg/Kg			07/29/21 22:2f	X

Client Sample ID: FS60

Lab Sample ID: 890-1010-60

Date Collected: 07/26/21 16:30

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1
Tol6ene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1
m-ORene () -ORene	<0.00403	U	0.00403		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1
ORene5vTotal	<0.00403	U	0.00403		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1
Total BTEO	<0.00403	U	0.00403		mg/Kg		07/28/21 09:41	07/29/21 03:X1	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225		05 - 215	50-73-72 58/42	50-78-72 51/t 2	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215	50-73-72 58/42	50-78-72 51/t 2	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:33	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:33	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:33	1
Total TPd	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	85		05 - 215	50-73-72 2, /13	50-72-72 20/11	2
o-aerTi enpl	38		05 - 215	50-73-72 2, /13	50-72-72 20/11	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		X0.X		mg/Kg			07/29/21 22:32	10

E6ro&n5 OencovCarl5bap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS61

Lab Sample ID: 890-1010-61

Date Collected: 07/26/21 16:33

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 04:11	1
Tol6ene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 04:11	1
EtsRbenzene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 04:11	1
m-ORene () -ORene	<0.00404	U	0.00404		mg/Kg		07/28/21 09:41	07/29/21 04:11	1
o-ORene	<0.00202	U	0.00202		mg/Kg		07/28/21 09:41	07/29/21 04:11	1
ORene5vTotal	<0.00404	U	0.00404		mg/Kg		07/28/21 09:41	07/29/21 04:11	1
Total BTEO	<0.00404	U	0.00404		mg/Kg		07/28/21 09:41	07/29/21 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	25,		05 - 215	50-73-72 58/42	50-78-72 54/22	2
2:4-6 Fluorobenzene (Surr)	88		05 - 215	50-73-72 58/42	50-78-72 54/22	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 17:X4	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 17:X4	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 17:X4	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 17:X4	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	87		05 - 215	50-73-72 2, /13	50-72-72 20/t 4	2
o-aerTi enpl	85		05 - 215	50-73-72 2, /13	50-72-72 20/t 4	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		24.9		mg/Kg			07/29/21 22:37	X

Client Sample ID: FS62

Lab Sample ID: 890-1010-62

Date Collected: 07/26/21 16:36

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 04:32	1
Tol6ene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 04:32	1
EtsRbenzene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 04:32	1
m-ORene () -ORene	<0.00402	U	0.00402		mg/Kg		07/28/21 09:41	07/29/21 04:32	1
o-ORene	<0.00201	U	0.00201		mg/Kg		07/28/21 09:41	07/29/21 04:32	1
ORene5vTotal	<0.00402	U	0.00402		mg/Kg		07/28/21 09:41	07/29/21 04:32	1
Total BTEO	<0.00402	U	0.00402		mg/Kg		07/28/21 09:41	07/29/21 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250		05 - 215	50-73-72 58/42	50-78-72 54/17	2
2:4-6 Fluorobenzene (Surr)	8,		05 - 215	50-73-72 58/42	50-78-72 54/17	2

E6ro&n5 OencovCarl5bap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS62

Lab Sample ID: 890-1010-62

Date Collected: 07/26/21 16:36

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 18:14	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 18:14	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 18:14	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	81		05 - 215	50-73-72 2, /13	50-72-72 23/24	2
o-aerTi enpl	87		05 - 215	50-73-72 2, /13	50-72-72 23/24	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		24.9		mg/Kg			07/29/21 22:43	X

Client Sample ID: FS63

Lab Sample ID: 890-1010-63

Date Collected: 07/26/21 16:39

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1
m-ORene ()-ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 0f:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	254		05 - 215	50-73-72 58/42	50-78-72 5, /72	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215	50-73-72 58/42	50-78-72 5, /72	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 18:3X	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 18:3X	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 18:3X	1
Total TPd	<49.9	U	49.9		mg/Kg		07/28/21 1f:38	07/31/21 18:3X	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di lrooCtne	38		05 - 215	50-73-72 2, /13	50-72-72 23/1t	2
o-aerTi enpl	30		05 - 215	50-73-72 2, /13	50-72-72 23/1t	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	850		X.04		mg/Kg			07/29/21 22:48	1

E6ro&n5 OencovCarl5bap

Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS64

Lab Sample ID: 890-1010-64

Date Collected: 07/26/21 16:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1
TolGene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1
EtsRbenzene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1
m-ORene () -ORene	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1
o-ORene	<0.00199	U	0.00199		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1
ORene5vTotal	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1
Total BTEO	<0.00398	U	0.00398		mg/Kg		07/28/21 09:41	07/29/21 0f :41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	270		05 - 215	50-73-72 58/42	50-78-72 5, /42	2
2:4-6 Fluorobenzene (Surr)	30		05 - 215	50-73-72 58/42	50-78-72 5, /42	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/28/21 1f :38	07/31/21 18:Xf	1
yGHh uCf -C10									
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/28/21 1f :38	07/31/21 18:Xf	1
C10-C28u									
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/28/21 1f :38	07/31/21 18:Xf	1
Total TPd	<X0.0	U	X0.0		mg/Kg		07/28/21 1f :38	07/31/21 18:Xf	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Di loriooCtne	87		05 - 215	50-73-72 2, /13	50-72-72 23/t ,	2
o-aerTi enpl	81		05 - 215	50-73-72 2, /13	50-72-72 23/t ,	2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		2X0		mg/Kg			08/0f /21 09:42	X

Client Sample ID: FS65

Lab Sample ID: 890-1010-65

Date Collected: 07/26/21 16:42

Matrix: Solid

Date Received: 07/27/21 13:06

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:41	07/29/21 07:02	1
TolGene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:41	07/29/21 07:02	1
EtsRbenzene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:41	07/29/21 07:02	1
m-ORene () -ORene	<0.0039f	U	0.0039f		mg/Kg		07/28/21 09:41	07/29/21 07:02	1
o-ORene	<0.00198	U	0.00198		mg/Kg		07/28/21 09:41	07/29/21 07:02	1
ORene5vTotal	<0.0039f	U	0.0039f		mg/Kg		07/28/21 09:41	07/29/21 07:02	1
Total BTEO	<0.0039f	U	0.0039f		mg/Kg		07/28/21 09:41	07/29/21 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	253		05 - 215	50-73-72 58/42	50-78-72 50/57	2
2:4-6 Fluorobenzene (Surr)	83		05 - 215	50-73-72 58/42	50-78-72 50/57	2

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS65
Date Collected: 07/26/21 16:42
Date Received: 07/27/21 13:06
Sample Depth: - 4

Lab Sample ID: 890-1010-65
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Ga5oline Hange h rganic5	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 19:1f	1	
yGHh uCf -C10										
Die5el Hange h rganic5 yh , er	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 19:1f	1	
C10-C28u										
h ll Hange h rganic5 yh , er C28-C3f u	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 19:1f	1	
Total TPd	<X0.0	U	X0.0		mg/Kg		07/28/21 1f:38	07/31/21 19:1f	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2-Di lorooCtne	84		05 - 215				50+73+72 2, /13	50+12+72 28/2,	2	
o-aerTi enpl	84		05 - 215				50+73+72 2, /13	50+12+72 28/2,	2	
Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2610		2X0		mg/Kg			08/0f /21 09:48	X	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1009-A-3-A MS	Matrix Spike	126	107
890-1010-1	FS01	100	96
890-1010-2	FS02	94	83
890-1010-3	FS03	116	94
890-1010-4	FS04	103	91
890-1010-5	FS05	122	97
890-1010-6	FS06	125	93
890-1010-7	FS07	92	73
890-1010-8	FS08	111	88
890-1010-9	FS09	109	93
890-1010-10	FS10	103	94
890-1010-11	FS11	118	94
890-1010-12	FS12	121	94
890-1010-13	FS13	106	94
890-1010-13 MS	FS13	102	87
890-1010-13 MSD	FS13	117	85
890-1010-14	FS14	117	93
890-1010-15	FS15	117	97
890-1010-16	FS16	105	95
890-1010-17	FS17	109	100
890-1010-18	FS18	122	89
890-1010-19	FS19	112	100
890-1010-20	FS20	112	99
890-1010-21	FS21	120	91
890-1010-22	FS22	137 S1+	85
890-1010-23	FS23	107	97
890-1010-24	FS24	109	97
890-1010-25	FS25	107	96
890-1010-26	FS26	109	99
890-1010-27	FS27	112	100
890-1010-28	FS28	110	97
890-1010-29	FS29	125	93
890-1010-30	FS30	112	98
890-1010-31	FS31	110	101
890-1010-32	FS32	109	99
890-1010-33	FS33	104	77
890-1010-33 MS	FS33	96	84
890-1010-34	FS34	114	87
890-1010-35	FS35	127	117
890-1010-36	FS36	115	95
890-1010-37	FS37	114	107
890-1010-38	FS38	124	113
890-1010-39	FS39	152 S1+	117
890-1010-40	FS40	156 S1+	71
890-1010-41	FS41	108	98
890-1010-42	FS42	120	119
890-1010-43	FS43	112	97
890-1010-44	FS44	123	102
890-1010-45	FS45	115	110

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1010-46	FS46	125	108
890-1010-47	FS47	114	91
890-1010-48	FS48	127	108
890-1010-49	FS49	121	76
890-1010-50	FS50	117	105
890-1010-51	FS51	111	101
890-1010-52	FS52	126	105
890-1010-53	FS53	110	96
890-1010-53 MS	FS53	106	95
890-1010-53 MSD	FS53	106	89
890-1010-54	FS54	113	97
890-1010-55	FS55	110	97
890-1010-56	FS56	108	95
890-1010-57	FS57	107	94
890-1010-58	FS58	109	98
890-1010-59	FS59	109	98
890-1010-60	FS60	110	98
890-1010-61	FS61	106	99
890-1010-62	FS62	107	96
890-1010-63	FS63	104	98
890-1010-64	FS64	127	87
890-1010-65	FS65	108	98
LCS 880-5730/1-A	Lab Control Sample	107	106
LCS 880-5732/1-A	Lab Control Sample	103	101
LCS 880-5736/1-A	Lab Control Sample	98	90
LCS 880-5738/1-A	Lab Control Sample	98	92
LCSD 880-5730/2-A	Lab Control Sample Dup	116	107
LCSD 880-5732/2-A	Lab Control Sample Dup	99	88
LCSD 880-5736/2-A	Lab Control Sample Dup	95	89
LCSD 880-5738/2-A	Lab Control Sample Dup	95	93
MB 880-5729/5-A	Method Blank	99	90
MB 880-5730/5-A	Method Blank	128	93
MB 880-5731/5-A	Method Blank	95	87
MB 880-5732/5-A	Method Blank	120	105
MB 880-5736/5-A	Method Blank	111	90
MB 880-5738/5-A	Method Blank	113	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1009-A-3-B MSD	Matrix Spike Duplicate		
890-1010-33 MSD	FS33		

Surrogate Legend

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1010-1

Project/Site: Santa Fe 8

SDG: TE034821008

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-1007-A-1-E MS	Matrix Spike	87	79
890-1007-A-1-F MSD	Matrix Spike Duplicate	94	90
890-1010-1	FS01	97	104
890-1010-1 MS	FS01	98	94
890-1010-1 MSD	FS01	96	93
890-1010-2	FS02	90	95
890-1010-3	FS03	94	100
890-1010-4	FS04	89	93
890-1010-5	FS05	93	97
890-1010-6	FS06	97	102
890-1010-7	FS07	89	91
890-1010-8	FS08	90	93
890-1010-9	FS09	96	102
890-1010-10	FS10	90	92
890-1010-11	FS11	95	99
890-1010-12	FS12	87	90
890-1010-13	FS13	89	94
890-1010-14	FS14	90	94
890-1010-15	FS15	89	94
890-1010-16	FS16	97	102
890-1010-17	FS17	89	93
890-1010-18	FS18	87	93
890-1010-19	FS19	87	93
890-1010-20	FS20	95	100
890-1010-21	FS21	94	109
890-1010-21 MS	FS21	102	106
890-1010-21 MSD	FS21	103	104
890-1010-22	FS22	98	110
890-1010-23	FS23	104	117
890-1010-24	FS24	105	119
890-1010-25	FS25	106	119
890-1010-26	FS26	103	119
890-1010-27	FS27	100	115
890-1010-28	FS28	97	113
890-1010-29	FS29	98	115
890-1010-30	FS30	106	120
890-1010-31	FS31	114	131 S1+
890-1010-32	FS32	92	109
890-1010-33	FS33	92	104
890-1010-34	FS34	95	109
890-1010-35	FS35	97	112
890-1010-36	FS36	120	140 S1+
890-1010-37	FS37	103	120
890-1010-38	FS38	99	115
890-1010-39	FS39	103	120
890-1010-40	FS40	104	120
890-1010-41	FS41	90	105

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1010-41 MS	FS41	82	91
890-1010-41 MSD	FS41	85	89
890-1010-42	FS42	88	104
890-1010-43	FS43	96	112
890-1010-44	FS44	90	107
890-1010-45	FS45	95	110
890-1010-46	FS46	91	106
890-1010-47	FS47	98	108
890-1010-48	FS48	105	125
890-1010-49	FS49	90	106
890-1010-50	FS50	82	96
890-1010-51	FS51	86	100
890-1010-52	FS52	87	103
890-1010-53	FS53	92	105
890-1010-54	FS54	90	102
890-1010-55	FS55	90	100
890-1010-56	FS56	92	99
890-1010-57	FS57	91	90
890-1010-58	FS58	90	89
890-1010-59	FS59	92	90
890-1010-60	FS60	90	89
890-1010-61	FS61	92	90
890-1010-62	FS62	93	92
890-1010-63	FS63	89	87
890-1010-64	FS64	92	93
890-1010-65	FS65	94	94
LCS 880-5772/2-A	Lab Control Sample	120	119
LCS 880-5811/2-A	Lab Control Sample	115	110
LCS 880-5816/2-A	Lab Control Sample	111	120
LCS 880-5839/2-A	Lab Control Sample	96	107
LCSD 880-5772/3-A	Lab Control Sample Dup	114	106
LCSD 880-5811/3-A	Lab Control Sample Dup	119	114
LCSD 880-5816/3-A	Lab Control Sample Dup	121	129
LCSD 880-5839/3-A	Lab Control Sample Dup	99	105
MB 880-5772/1-A	Method Blank	96	96
MB 880-5811/1-A	Method Blank	90	92
MB 880-5816/1-A	Method Blank	111	129
MB 880-5839/1-A	Method Blank	85	96

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5729/5-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:37	07/28/21 12:44	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:37	07/28/21 12:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/28/21 08:37	07/28/21 12:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/21 08:37	07/28/21 12:44	1

Lab Sample ID: MB 880-5730/5-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:43	07/28/21 23:3H	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	07/28/21 08:43	07/28/21 23:35	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/28/21 08:43	07/28/21 23:35	1

Lab Sample ID: LCS 880-5730/1-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.10H0		mg/Kg		10H	70 - 130
Tol6ene	0.100	0.09479		mg/Kg		9H	70 - 130
EtsRbenzene	0.100	0.09337		mg/Kg		93	70 - 130
m-ORene ()-ORene	0.200	0.1872		mg/Kg		94	70 - 130
o-ORene	0.100	0.09488		mg/Kg		9H	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: LCSD 880-5730/2-A

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.10u4		mg/Kg		10u	70 - 130	1	3H
Tol6ene	0.100	0.0982H		mg/Kg		98	70 - 130	4	3H
EtsRbenzene	0.100	0.09801		mg/Kg		98	70 - 130	H	3H
m-ORene ()-ORene	0.200	0.1994		mg/Kg		100	70 - 130	u	3H
o-ORene	0.100	0.1009		mg/Kg		101	70 - 130	u	3H

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-1009-A-3-B MSD

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.0H4uH		mg/Kg					
Tol6ene	<0.00198	U	0.100	0.0u324		mg/Kg					
EtsRbenzene	0.0020u		0.100	0.0u22u		mg/Kg					
m-ORene ()-ORene	0.0041u		0.200	0.11u3		mg/Kg					
o-ORene	0.00321		0.100	0.0H897		mg/Kg					

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

Lab Sample ID: MB 880-5731/5-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:4u	07/28/21 13:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/28/21 08:46	07/28/21 13:32	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/28/21 08:46	07/28/21 13:32	1

Lab Sample ID: MB 880-5732/5-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:30	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: MB 880-5732/5-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:30	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:30	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 03:30	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 08:49	07/29/21 03:30	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 03:30	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 08:49	07/29/21 03:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	07/28/21 08:49	07/29/21 03:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/28/21 08:49	07/29/21 03:30	1

Lab Sample ID: LCS 880-5732/1-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09308		mg/Kg		93	70 - 130
Tol6ene	0.100	0.09432		mg/Kg		94	70 - 130
EtsRbenzene	0.100	0.0924H		mg/Kg		92	70 - 130
m-ORene ()-ORene	0.200	0.1907		mg/Kg		9H	70 - 130
o-ORene	0.100	0.0943H		mg/Kg		94	70 - 130

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

Lab Sample ID: LCSD 880-5732/2-A

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5732

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08731		mg/Kg		87	70 - 130	u	3H
Tol6ene	0.100	0.089H2		mg/Kg		90	70 - 130	H	3H
EtsRbenzene	0.100	0.0894u		mg/Kg		89	70 - 130	3	3H
m-ORene ()-ORene	0.200	0.1797		mg/Kg		90	70 - 130	u	3H
o-ORene	0.100	0.08898		mg/Kg		89	70 - 130	u	3H

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

Lab Sample ID: 890-1010-33 MSD

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: FS33

Prep Type: Total/NA

Prep Batch: 5732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.0747u		mg/Kg					
Tol6ene	<0.00200	U	0.0994	0.07818		mg/Kg					

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: 890-1010-33 MSD

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: FS33

Prep Type: Total/NA

Prep Batch: 5732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
EtsRbenzene	<0.00200	U	0.0994	0.07372		mg/Kg					
m-ORene ()-ORene	<0.00399	U	0.199	0.1HB4		mg/Kg					
o-ORene	<0.00200	U	0.0994	0.07u9H		mg/Kg					

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

Lab Sample ID: 890-1009-A-3-A MS

Matrix: Solid

Analysis Batch: 5734

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-5736/5-A

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1
m-ORene ()-ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 09:33	07/28/21 13:2H	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/28/21 09:33	07/28/21 13:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/21 09:33	07/28/21 13:25	1

Lab Sample ID: LCS 880-5736/1-A

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.0809u		mg/Kg		81	70 - 130
Tol6ene	0.100	0.09H4u		mg/Kg		9u	70 - 130
EtsRbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-ORene ()-ORene	0.200	0.2048		mg/Kg		102	70 - 130
o-ORene	0.100	0.0977u		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: LCSD 880-5736/2-A

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5736

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08331		mg/Kg		83	70 - 130	3	3H
TolGene	0.100	0.09107		mg/Kg		91	70 - 130	H	3H
EtsRbenzene	0.100	0.09u73		mg/Kg		97	70 - 130	4	3H
m-ORene ()-ORene	0.200	0.19H4		mg/Kg		98	70 - 130	H	3H
o-ORene	0.100	0.091u4		mg/Kg		92	70 - 130	u	3H

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-1010-13 MS

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 5736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.07399		mg/Kg		74	70 - 130		
TolGene	<0.00199	U	0.0998	0.08940		mg/Kg		90	70 - 130		
EtsRbenzene	<0.00199	U	0.0998	0.09H4H		mg/Kg		9u	70 - 130		
m-ORene ()-ORene	<0.00398	U	0.200	0.1948		mg/Kg		98	70 - 130		
o-ORene	<0.00199	U	0.0998	0.09190		mg/Kg		92	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-1010-13 MSD

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 5736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.0uH18	F1	mg/Kg		uH	70 - 130	13	3H
TolGene	<0.00199	U	0.100	0.0834H		mg/Kg		83	70 - 130	7	3H
EtsRbenzene	<0.00199	U	0.100	0.09304		mg/Kg		93	70 - 130	3	3H
m-ORene ()-ORene	<0.00398	U	0.200	0.1943		mg/Kg		97	70 - 130	0	3H
o-ORene	<0.00199	U	0.100	0.0930H		mg/Kg		93	70 - 130	1	3H

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-1010-33 MS

Matrix: Solid

Analysis Batch: 5737

Client Sample ID: FS33

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: MB 880-5738/5-A

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 00:19	1
Tol6ene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 00:19	1
EtsRbenzene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 00:19	1
m-ORene () -ORene	<0.00400	U	0.00400		mg/Kg		07/28/21 09:41	07/29/21 00:19	1
o-ORene	<0.00200	U	0.00200		mg/Kg		07/28/21 09:41	07/29/21 00:19	1
ORene5vTotal	<0.00400	U	0.00400		mg/Kg		07/28/21 09:41	07/29/21 00:19	1
Total BTEO	<0.00400	U	0.00400		mg/Kg		07/28/21 09:41	07/29/21 00:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/28/21 09:41	07/29/21 00:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/28/21 09:41	07/29/21 00:59	1

Lab Sample ID: LCS 880-5738/1-A

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08472		mg/Kg		8H	70 - 130
Tol6ene	0.100	0.09207		mg/Kg		92	70 - 130
EtsRbenzene	0.100	0.0990u		mg/Kg		99	70 - 130
m-ORene () -ORene	0.200	0.1997		mg/Kg		100	70 - 130
o-ORene	0.100	0.09H92		mg/Kg		9u	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-5738/2-A

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5738

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08718		mg/Kg		87	70 - 130	3	3H
Tol6ene	0.100	0.09107		mg/Kg		91	70 - 130	1	3H
EtsRbenzene	0.100	0.09Hu8		mg/Kg		9u	70 - 130	3	3H
m-ORene () -ORene	0.200	0.1903		mg/Kg		9H	70 - 130	H	3H
o-ORene	0.100	0.092H3		mg/Kg		93	70 - 130	4	3H

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-1010-53 MS

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: FS53

Prep Type: Total/NA

Prep Batch: 5738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F1	0.0998	0.0uu7u	F1	mg/Kg		u7	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: 890-1010-53 MS

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: FS53

Prep Type: Total/NA

Prep Batch: 5738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tol6ene	<0.00201	U	0.0998	0.07H0		mg/Kg		7H	70 - 130
EtsRbenzene	<0.00201	U	0.0998	0.082H8		mg/Kg		82	70 - 130
m-ORene ()-ORene	<0.00402	U	0.200	0.1u78		mg/Kg		84	70 - 130
o-ORene	<0.00201	U	0.0998	0.08013		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		70 - 130						
1,4-Difluorobenzene (Surr)	95		70 - 130						

Lab Sample ID: 890-1010-53 MSD

Matrix: Solid

Analysis Batch: 5733

Client Sample ID: FS53

Prep Type: Total/NA

Prep Batch: 5738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.0uH19	F1	mg/Kg		uH	70 - 130	2	3H
Tol6ene	<0.00201	U	0.101	0.07910		mg/Kg		78	70 - 130	H	3H
EtsRbenzene	<0.00201	U	0.101	0.084u0		mg/Kg		83	70 - 130	2	3H
m-ORene ()-ORene	<0.00402	U	0.202	0.1724		mg/Kg		8H	70 - 130	3	3H
o-ORene	<0.00201	U	0.101	0.08394		mg/Kg		83	70 - 130	H	3H
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	89		70 - 130								

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

Lab Sample ID: MB 880-5772/1-A

Matrix: Solid

Analysis Batch: 5919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline f ange Xrganic5	<H0.0	U	H0.0		mg/Kg		07/28/21 1u:38	07/31/21 10:3u	1
,Gf XdCu-C10									
Die5el f ange Xrganic5,X&er	<H0.0	U	H0.0		mg/Kg		07/28/21 1u:38	07/31/21 10:3u	1
C10-C28d									
Xll f ange Xrganic5,X&er C28-C3ud	<H0.0	U	H0.0		mg/Kg		07/28/21 1u:38	07/31/21 10:3u	1
Total TPp	<H0.0	U	H0.0		mg/Kg		07/28/21 1u:38	07/31/21 10:3u	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				07/28/21 16:38	07/31/21 10:36	1
o-Terphenyl	96		70 - 130				07/28/21 16:38	07/31/21 10:36	1

Lab Sample ID: LCS 880-5772/2-A

Matrix: Solid

Analysis Batch: 5919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ga5oline f ange Xrganic5	1000	991.1		mg/Kg		99	70 - 130
,Gf XdCu-C10							

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: LCS 880-5772/2-A

Matrix: Solid

Analysis Batch: 5919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5772

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Die5el f ange Xrganic5 ,X&er C10-C28d			1000	920.1		mg/Kg		92	70 - 130		
Surrogate	LCS		Limits	LCS							
	%Recovery	Qualifier									
1-Chlorooctane	120		70 - 130								
o-Terphenyl	119		70 - 130								

Lab Sample ID: LCSD 880-5772/3-A

Matrix: Solid

Analysis Batch: 5919

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5772

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Ga5oline f ange Xrganic5			1000	992.4		mg/Kg		99	70 - 130	0	20
,Gf XdCu-C10											
Die5el f ange Xrganic5 ,X&er			1000	8u4.4		mg/Kg		8u	70 - 130	u	20
C10-C28d											

Lab Sample ID: 890-1007-A-1-E MS

Matrix: Solid

Analysis Batch: 5919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5772

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	%Rec.	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	99u	934.H		mg/Kg		92	70 - 130			
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	99u	771.2		mg/Kg		77	70 - 130			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	87		70 - 130									
o-Terphenyl	79		70 - 130									

Lab Sample ID: 890-1007-A-1-F MSD

Matrix: Solid

Analysis Batch: 5919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5772

	Sample	Sample	Spike	MSD	MSD			%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	99u	1030		mg/Kg		102	70 - 130	10	20
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	99u	8H8.3		mg/Kg		8u	70 - 130	11	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	90		70 - 130								

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: MB 880-5811/1-A

Matrix: Solid

Analysis Batch: 5928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	H0.0		mg/Kg		07/29/21 13:0H	08/01/21 12:21	1
Die5el f ange Xrganic5,X&er C10-C28d	<H0.0	U	H0.0		mg/Kg		07/29/21 13:0H	08/01/21 12:21	1
Xll f ange Xrganic5,X&er C28-C3ud	<H0.0	U	H0.0		mg/Kg		07/29/21 13:0H	08/01/21 12:21	1
Total TPp	<H0.0	U	H0.0		mg/Kg		07/29/21 13:0H	08/01/21 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/29/21 13:05	08/01/21 12:21	1
o-Terphenyl	92		70 - 130	07/29/21 13:05	08/01/21 12:21	1

Lab Sample ID: LCS 880-5811/2-A

Matrix: Solid

Analysis Batch: 5928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	1000	9u7.2		mg/Kg		97	70 - 130
Die5el f ange Xrganic5,X&er C10-C28d	1000	8u8.2		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-5811/3-A

Matrix: Solid

Analysis Batch: 5928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5811

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	1000	984.H		mg/Kg		98	70 - 130	2	20
Die5el f ange Xrganic5,X&er C10-C28d	1000	918.u		mg/Kg		92	70 - 130	u	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 890-1010-1 MS

Matrix: Solid

Analysis Batch: 5928

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 5811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	99u	971.H		mg/Kg		94	70 - 130
Die5el f ange Xrganic5,X&er C10-C28d	<H0.0	U	99u	817.3		mg/Kg		82	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: 890-1010-1 MS

Matrix: Solid

Analysis Batch: 5928

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 5811

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-1010-1 MSD

Matrix: Solid

Analysis Batch: 5928

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 5811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	99u	934.9		mg/Kg		91	70 - 130	4	20
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	99u	81H4		mg/Kg		82	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-5816/1-A

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5816

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	H0.0		mg/Kg		07/29/21 13:22	08/01/21 12:21	1
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	H0.0		mg/Kg		07/29/21 13:22	08/01/21 12:21	1
Xll f ange Xrganic5 ,X&er C28-C3ud	<H0.0	U	H0.0		mg/Kg		07/29/21 13:22	08/01/21 12:21	1
Total TPp	<H0.0	U	H0.0		mg/Kg		07/29/21 13:22	08/01/21 12:21	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	111		70 - 130	07/29/21 13:22	08/01/21 12:21	1			
o-Terphenyl	129		70 - 130	07/29/21 13:22	08/01/21 12:21	1			

Lab Sample ID: LCS 880-5816/2-A

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	1000	843.7		mg/Kg		84	70 - 130
Die5el f ange Xrganic5 ,X&er C10-C28d	1000	849.0		mg/Kg		8H	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	120		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: LCSD 880-5816/3-A

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5816

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	1000	877.1		mg/Kg		88	70 - 130	4	20
Die5el f ange Xrganic5 ,X&er C10-C28d	1000	92u.0		mg/Kg		93	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	121		70 - 130						
o-Terphenyl	129		70 - 130						

Lab Sample ID: 890-1010-21 MS

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 5816

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	99u	9u4.H		mg/Kg		9H	70 - 130		
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	99u	888.u		mg/Kg		89	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	106		70 - 130								

Lab Sample ID: 890-1010-21 MSD

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 5816

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	99u	1031		mg/Kg		101	70 - 130	7	20
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	99u	901.1		mg/Kg		90	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	104		70 - 130								

Lab Sample ID: MB 880-5839/1-A

Matrix: Solid

Analysis Batch: 5854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ga5oline f ange Xrganic5 ,Gf XdCu-C10	<H0.0	U	H0.0		mg/Kg		07/29/21 1u:40	07/30/21 10:23	1
Die5el f ange Xrganic5 ,X&er C10-C28d	<H0.0	U	H0.0		mg/Kg		07/29/21 1u:40	07/30/21 10:23	1
Xll f ange Xrganic5 ,X&er C28-C3ud	<H0.0	U	H0.0		mg/Kg		07/29/21 1u:40	07/30/21 10:23	1
Total TPp	<H0.0	U	H0.0		mg/Kg		07/29/21 1u:40	07/30/21 10:23	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: MB 880-5839/1-A

Matrix: Solid

Analysis Batch: 5854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5839

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/29/21 16:40	07/30/21 10:23	1
o-Terphenyl	96		70 - 130	07/29/21 16:40	07/30/21 10:23	1

Lab Sample ID: LCS 880-5839/2-A

Matrix: Solid

Analysis Batch: 5854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ga5oline f ange Xrganic5	1000	789.3		mg/Kg		79	70 - 130
,Gf XdCu-C10							
Die5el f ange Xrganic5 ,X&er	1000	993.9		mg/Kg		99	70 - 130
C10-C28d							

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

Lab Sample ID: LCSD 880-5839/3-A

Matrix: Solid

Analysis Batch: 5854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5839

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5	1000	7uH0		mg/Kg		7u	70 - 130	3	20
,Gf XdCu-C10									
Die5el f ange Xrganic5 ,X&er	1000	948.7		mg/Kg		9H	70 - 130	H	20
C10-C28d									

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

Lab Sample ID: 890-1010-41 MS

Matrix: Solid

Analysis Batch: 5854

Client Sample ID: FS41

Prep Type: Total/NA

Prep Batch: 5839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ga5oline f ange Xrganic5	<H0.0	U	99u	722.8		mg/Kg		73	70 - 130
,Gf XdCu-C10									
Die5el f ange Xrganic5 ,X&er	<H0.0	U	99u	890.1		mg/Kg		89	70 - 130
C10-C28d									

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Lab Sample ID: 890-1010-41 MSD

Matrix: Solid

Analysis Batch: 5854

Client Sample ID: FS41

Prep Type: Total/NA

Prep Batch: 5839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ga5oline f ange Xrganic5	<H0.0	U	99u	741.7		mg/Kg		74	70 - 130	3	20
,Gf XdCu-C10											
Die5el f ange Xrganic5 ,X&er	<H0.0	U	99u	884.H		mg/Kg		89	70 - 130	1	20
C10-C28d											
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5756/1-A

Matrix: Solid

Analysis Batch: 5822

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			07/29/21 21:40	1

Lab Sample ID: LCS 880-5756/2-A

Matrix: Solid

Analysis Batch: 5822

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H0	248.H		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5756/3-A

Matrix: Solid

Analysis Batch: 5822

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	248.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1010-18 MS

Matrix: Solid

Analysis Batch: 5822

Client Sample ID: FS18

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H00		12H0	37H4		mg/Kg		100	90 - 110

Lab Sample ID: 890-1010-18 MSD

Matrix: Solid

Analysis Batch: 5822

Client Sample ID: FS18

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H00		12H0	37H1		mg/Kg		100	90 - 110	0	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-5760/1-A

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			07/29/21 1u:H0	1

Lab Sample ID: LCS 880-5760/2-A

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H0	2u0.9		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5760/3-A

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	2u0.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1010-28 MS

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: FS28

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	3280	F1	12u0	47u0	F1	mg/Kg		117	90 - 110

Lab Sample ID: 890-1010-28 MSD

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: FS28

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	3280	F1	12u0	4u7H		mg/Kg		110	90 - 110	2	20

Lab Sample ID: 890-1010-38 MS

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: FS38

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	12u0		248	1447	4	mg/Kg		77	90 - 110

Lab Sample ID: 890-1010-38 MSD

Matrix: Solid

Analysis Batch: 5824

Client Sample ID: FS38

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	12u0		248	1449	4	mg/Kg		78	90 - 110	0	20

Lab Sample ID: MB 880-5761/1-A

Matrix: Solid

Analysis Batch: 5831

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			07/29/21 20:03	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-5761/2-A

Matrix: Solid

Analysis Batch: 5831

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H0	2u0.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5761/3-A

Matrix: Solid

Analysis Batch: 5831

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	2H0.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1010-54 MS

Matrix: Solid

Analysis Batch: 5831

Client Sample ID: FS54

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	1uH0	F1	12u0	3110	F1	mg/Kg		11u	90 - 110

Lab Sample ID: 890-1010-54 MSD

Matrix: Solid

Analysis Batch: 5831

Client Sample ID: FS54

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	1uH0	F1	12u0	3010		mg/Kg		108	90 - 110	3	20

Lab Sample ID: MB 880-6010/1-A

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			08/03/21 23:Hu	1

Lab Sample ID: LCS 880-6010/2-A

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H0	231.8		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-6010/3-A

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	233.H		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 890-1010-2 MS

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	107		2H0	3H0.9		mg/Kg		101	90 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1010-2 MSD

Matrix: Solid

Analysis Batch: 6020

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	107		2H0	3H13		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-5980/1-A

Matrix: Solid

Analysis Batch: 6067

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Csloriye	<H00	U	H00		mg/Kg			08/0u/21 02:23	1

Lab Sample ID: LCS 880-5980/2-A

Matrix: Solid

Analysis Batch: 6067

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	2H0	2H9.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-5980/3-A

Matrix: Solid

Analysis Batch: 6067

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	2H0	2H9.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-4477-A-21-F MS

Matrix: Solid

Analysis Batch: 6067

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Csloriye	18H0		12H0	3148		mg/Kg		104	90 - 110

Lab Sample ID: 880-4477-A-21-G MSD

Matrix: Solid

Analysis Batch: 6067

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Csloriye	18H0		12H0	3147		mg/Kg		104	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC VOA

Prep Batch: 5729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5729/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-1	FS01	Total/NA	Solid	5035	
890-1010-2	FS02	Total/NA	Solid	5035	
890-1010-3	FS03	Total/NA	Solid	5035	
890-1010-4	FS04	Total/NA	Solid	5035	
890-1010-5	FS05	Total/NA	Solid	5035	
890-1010-6	FS06	Total/NA	Solid	5035	
890-1010-7	FS07	Total/NA	Solid	5035	
890-1010-8	FS08	Total/NA	Solid	5035	
890-1010-9	FS09	Total/NA	Solid	5035	
890-1010-10	FS10	Total/NA	Solid	5035	
890-1010-11	FS11	Total/NA	Solid	5035	
890-1010-12	FS12	Total/NA	Solid	5035	
MB 880-5730/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5730/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5730/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1009-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 5731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5731/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-33	FS33	Total/NA	Solid	5035	
890-1010-34	FS34	Total/NA	Solid	5035	
890-1010-35	FS35	Total/NA	Solid	5035	
890-1010-36	FS36	Total/NA	Solid	5035	
890-1010-37	FS37	Total/NA	Solid	5035	
890-1010-38	FS38	Total/NA	Solid	5035	
890-1010-39	FS39	Total/NA	Solid	5035	
890-1010-40	FS40	Total/NA	Solid	5035	
890-1010-41	FS41	Total/NA	Solid	5035	
890-1010-42	FS42	Total/NA	Solid	5035	
890-1010-43	FS43	Total/NA	Solid	5035	
890-1010-44	FS44	Total/NA	Solid	5035	
890-1010-45	FS45	Total/NA	Solid	5035	
890-1010-46	FS46	Total/NA	Solid	5035	
890-1010-47	FS47	Total/NA	Solid	5035	
890-1010-48	FS48	Total/NA	Solid	5035	
890-1010-49	FS49	Total/NA	Solid	5035	
890-1010-50	FS50	Total/NA	Solid	5035	
890-1010-51	FS51	Total/NA	Solid	5035	
890-1010-52	FS52	Total/NA	Solid	5035	
MB 880-5732/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5732/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5732/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1010-33 MSD	FS33	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC VOA

Analysis Batch: 5733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-13	FS13	Total/NA	Solid	8021B	5736
890-1010-14	FS14	Total/NA	Solid	8021B	5736
890-1010-15	FS15	Total/NA	Solid	8021B	5736
890-1010-16	FS16	Total/NA	Solid	8021B	5736
890-1010-17	FS17	Total/NA	Solid	8021B	5736
890-1010-18	FS18	Total/NA	Solid	8021B	5736
890-1010-19	FS19	Total/NA	Solid	8021B	5736
890-1010-20	FS20	Total/NA	Solid	8021B	5736
890-1010-21	FS21	Total/NA	Solid	8021B	5736
890-1010-22	FS22	Total/NA	Solid	8021B	5736
890-1010-23	FS23	Total/NA	Solid	8021B	5736
890-1010-24	FS24	Total/NA	Solid	8021B	5736
890-1010-25	FS25	Total/NA	Solid	8021B	5736
890-1010-26	FS26	Total/NA	Solid	8021B	5736
890-1010-27	FS27	Total/NA	Solid	8021B	5736
890-1010-28	FS28	Total/NA	Solid	8021B	5736
890-1010-29	FS29	Total/NA	Solid	8021B	5736
890-1010-30	FS30	Total/NA	Solid	8021B	5736
890-1010-31	FS31	Total/NA	Solid	8021B	5736
890-1010-32	FS32	Total/NA	Solid	8021B	5736
890-1010-53	FS53	Total/NA	Solid	8021B	5738
890-1010-54	FS54	Total/NA	Solid	8021B	5738
890-1010-55	FS55	Total/NA	Solid	8021B	5738
890-1010-56	FS56	Total/NA	Solid	8021B	5738
890-1010-57	FS57	Total/NA	Solid	8021B	5738
890-1010-58	FS58	Total/NA	Solid	8021B	5738
890-1010-59	FS59	Total/NA	Solid	8021B	5738
890-1010-60	FS60	Total/NA	Solid	8021B	5738
890-1010-61	FS61	Total/NA	Solid	8021B	5738
890-1010-62	FS62	Total/NA	Solid	8021B	5738
890-1010-63	FS63	Total/NA	Solid	8021B	5738
890-1010-64	FS64	Total/NA	Solid	8021B	5738
890-1010-65	FS65	Total/NA	Solid	8021B	5738
MB 880-5736/5-A	Method Blank	Total/NA	Solid	8021B	5736
MB 880-5738/5-A	Method Blank	Total/NA	Solid	8021B	5738
LCS 880-5736/1-A	Lab Control Sample	Total/NA	Solid	8021B	5736
LCS 880-5738/1-A	Lab Control Sample	Total/NA	Solid	8021B	5738
LCSD 880-5736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5736
LCSD 880-5738/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5738
890-1010-13 MS	FS13	Total/NA	Solid	8021B	5736
890-1010-13 MSD	FS13	Total/NA	Solid	8021B	5736
890-1010-53 MS	FS53	Total/NA	Solid	8021B	5738
890-1010-53 MSD	FS53	Total/NA	Solid	8021B	5738

Analysis Batch: 5734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-1	FS01	Total/NA	Solid	8021B	5730
890-1010-2	FS02	Total/NA	Solid	8021B	5730
890-1010-3	FS03	Total/NA	Solid	8021B	5730
890-1010-4	FS04	Total/NA	Solid	8021B	5730
890-1010-5	FS05	Total/NA	Solid	8021B	5730

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC VOA (Continued)

Analysis Batch: 5734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-6	FS06	Total/NA	Solid	8021B	5730
890-1010-7	FS07	Total/NA	Solid	8021B	5730
890-1010-8	FS08	Total/NA	Solid	8021B	5730
890-1010-9	FS09	Total/NA	Solid	8021B	5730
890-1010-10	FS10	Total/NA	Solid	8021B	5730
890-1010-11	FS11	Total/NA	Solid	8021B	5730
890-1010-12	FS12	Total/NA	Solid	8021B	5730
MB 880-5729/5-A	Method Blank	Total/NA	Solid	8021B	5729
MB 880-5730/5-A	Method Blank	Total/NA	Solid	8021B	5730
LCS 880-5730/1-A	Lab Control Sample	Total/NA	Solid	8021B	5730
LCSD 880-5730/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5730
890-1009-A-3-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1009-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	5730

Prep Batch: 5736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-13	FS13	Total/NA	Solid	5035	
890-1010-14	FS14	Total/NA	Solid	5035	
890-1010-15	FS15	Total/NA	Solid	5035	
890-1010-16	FS16	Total/NA	Solid	5035	
890-1010-17	FS17	Total/NA	Solid	5035	
890-1010-18	FS18	Total/NA	Solid	5035	
890-1010-19	FS19	Total/NA	Solid	5035	
890-1010-20	FS20	Total/NA	Solid	5035	
890-1010-21	FS21	Total/NA	Solid	5035	
890-1010-22	FS22	Total/NA	Solid	5035	
890-1010-23	FS23	Total/NA	Solid	5035	
890-1010-24	FS24	Total/NA	Solid	5035	
890-1010-25	FS25	Total/NA	Solid	5035	
890-1010-26	FS26	Total/NA	Solid	5035	
890-1010-27	FS27	Total/NA	Solid	5035	
890-1010-28	FS28	Total/NA	Solid	5035	
890-1010-29	FS29	Total/NA	Solid	5035	
890-1010-30	FS30	Total/NA	Solid	5035	
890-1010-31	FS31	Total/NA	Solid	5035	
890-1010-32	FS32	Total/NA	Solid	5035	
MB 880-5736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1010-13 MS	FS13	Total/NA	Solid	5035	
890-1010-13 MSD	FS13	Total/NA	Solid	5035	

Analysis Batch: 5737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-33	FS33	Total/NA	Solid	8021B	5732
890-1010-34	FS34	Total/NA	Solid	8021B	5732
890-1010-35	FS35	Total/NA	Solid	8021B	5732
890-1010-36	FS36	Total/NA	Solid	8021B	5732
890-1010-37	FS37	Total/NA	Solid	8021B	5732
890-1010-38	FS38	Total/NA	Solid	8021B	5732
890-1010-39	FS39	Total/NA	Solid	8021B	5732

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC VOA (Continued)

Analysis Batch: 5737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-40	FS40	Total/NA	Solid	8021B	5732
890-1010-41	FS41	Total/NA	Solid	8021B	5732
890-1010-42	FS42	Total/NA	Solid	8021B	5732
890-1010-43	FS43	Total/NA	Solid	8021B	5732
890-1010-44	FS44	Total/NA	Solid	8021B	5732
890-1010-45	FS45	Total/NA	Solid	8021B	5732
890-1010-46	FS46	Total/NA	Solid	8021B	5732
890-1010-47	FS47	Total/NA	Solid	8021B	5732
890-1010-48	FS48	Total/NA	Solid	8021B	5732
890-1010-49	FS49	Total/NA	Solid	8021B	5732
890-1010-50	FS50	Total/NA	Solid	8021B	5732
890-1010-51	FS51	Total/NA	Solid	8021B	5732
890-1010-52	FS52	Total/NA	Solid	8021B	5732
MB 880-5731/5-A	Method Blank	Total/NA	Solid	8021B	5731
MB 880-5732/5-A	Method Blank	Total/NA	Solid	8021B	5732
LCS 880-5732/1-A	Lab Control Sample	Total/NA	Solid	8021B	5732
LCSD 880-5732/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5732
890-1010-33 MS	FS33	Total/NA	Solid	8021B	
890-1010-33 MSD	FS33	Total/NA	Solid	8021B	5732

Prep Batch: 5738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-53	FS53	Total/NA	Solid	5035	
890-1010-54	FS54	Total/NA	Solid	5035	
890-1010-55	FS55	Total/NA	Solid	5035	
890-1010-56	FS56	Total/NA	Solid	5035	
890-1010-57	FS57	Total/NA	Solid	5035	
890-1010-58	FS58	Total/NA	Solid	5035	
890-1010-59	FS59	Total/NA	Solid	5035	
890-1010-60	FS60	Total/NA	Solid	5035	
890-1010-61	FS61	Total/NA	Solid	5035	
890-1010-62	FS62	Total/NA	Solid	5035	
890-1010-63	FS63	Total/NA	Solid	5035	
890-1010-64	FS64	Total/NA	Solid	5035	
890-1010-65	FS65	Total/NA	Solid	5035	
MB 880-5738/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5738/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5738/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1010-53 MS	FS53	Total/NA	Solid	5035	
890-1010-53 MSD	FS53	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 5772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-57	FS57	Total/NA	Solid	8015NM Prep	
890-1010-58	FS58	Total/NA	Solid	8015NM Prep	
890-1010-59	FS59	Total/NA	Solid	8015NM Prep	
890-1010-60	FS60	Total/NA	Solid	8015NM Prep	
890-1010-61	FS61	Total/NA	Solid	8015NM Prep	
890-1010-62	FS62	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC Semi VOA (Continued)

Prep Batch: 5772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-63	FS63	Total/NA	Solid	8015NM Prep	
890-1010-64	FS64	Total/NA	Solid	8015NM Prep	
890-1010-65	FS65	Total/NA	Solid	8015NM Prep	
MB 880-5772/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5772/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5772/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1007-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1007-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 5811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-1	FS01	Total/NA	Solid	8015NM Prep	
890-1010-2	FS02	Total/NA	Solid	8015NM Prep	
890-1010-3	FS03	Total/NA	Solid	8015NM Prep	
890-1010-4	FS04	Total/NA	Solid	8015NM Prep	
890-1010-5	FS05	Total/NA	Solid	8015NM Prep	
890-1010-6	FS06	Total/NA	Solid	8015NM Prep	
890-1010-7	FS07	Total/NA	Solid	8015NM Prep	
890-1010-8	FS08	Total/NA	Solid	8015NM Prep	
890-1010-9	FS09	Total/NA	Solid	8015NM Prep	
890-1010-10	FS10	Total/NA	Solid	8015NM Prep	
890-1010-11	FS11	Total/NA	Solid	8015NM Prep	
890-1010-12	FS12	Total/NA	Solid	8015NM Prep	
890-1010-13	FS13	Total/NA	Solid	8015NM Prep	
890-1010-14	FS14	Total/NA	Solid	8015NM Prep	
890-1010-15	FS15	Total/NA	Solid	8015NM Prep	
890-1010-16	FS16	Total/NA	Solid	8015NM Prep	
890-1010-17	FS17	Total/NA	Solid	8015NM Prep	
890-1010-18	FS18	Total/NA	Solid	8015NM Prep	
890-1010-19	FS19	Total/NA	Solid	8015NM Prep	
890-1010-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-5811/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5811/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5811/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1010-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-1010-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 5816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-21	FS21	Total/NA	Solid	8015NM Prep	
890-1010-22	FS22	Total/NA	Solid	8015NM Prep	
890-1010-23	FS23	Total/NA	Solid	8015NM Prep	
890-1010-24	FS24	Total/NA	Solid	8015NM Prep	
890-1010-25	FS25	Total/NA	Solid	8015NM Prep	
890-1010-26	FS26	Total/NA	Solid	8015NM Prep	
890-1010-27	FS27	Total/NA	Solid	8015NM Prep	
890-1010-28	FS28	Total/NA	Solid	8015NM Prep	
890-1010-29	FS29	Total/NA	Solid	8015NM Prep	
890-1010-30	FS30	Total/NA	Solid	8015NM Prep	
890-1010-31	FS31	Total/NA	Solid	8015NM Prep	
890-1010-32	FS32	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC Semi VOA (Continued)

Prep Batch: 5816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-33	FS33	Total/NA	Solid	8015NM Prep	
890-1010-34	FS34	Total/NA	Solid	8015NM Prep	
890-1010-35	FS35	Total/NA	Solid	8015NM Prep	
890-1010-36	FS36	Total/NA	Solid	8015NM Prep	
890-1010-37	FS37	Total/NA	Solid	8015NM Prep	
890-1010-38	FS38	Total/NA	Solid	8015NM Prep	
890-1010-39	FS39	Total/NA	Solid	8015NM Prep	
890-1010-40	FS40	Total/NA	Solid	8015NM Prep	
MB 880-5816/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5816/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1010-21 MS	FS21	Total/NA	Solid	8015NM Prep	
890-1010-21 MSD	FS21	Total/NA	Solid	8015NM Prep	

Prep Batch: 5839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-41	FS41	Total/NA	Solid	8015NM Prep	
890-1010-42	FS42	Total/NA	Solid	8015NM Prep	
890-1010-43	FS43	Total/NA	Solid	8015NM Prep	
890-1010-44	FS44	Total/NA	Solid	8015NM Prep	
890-1010-45	FS45	Total/NA	Solid	8015NM Prep	
890-1010-46	FS46	Total/NA	Solid	8015NM Prep	
890-1010-47	FS47	Total/NA	Solid	8015NM Prep	
890-1010-48	FS48	Total/NA	Solid	8015NM Prep	
890-1010-49	FS49	Total/NA	Solid	8015NM Prep	
890-1010-50	FS50	Total/NA	Solid	8015NM Prep	
890-1010-51	FS51	Total/NA	Solid	8015NM Prep	
890-1010-52	FS52	Total/NA	Solid	8015NM Prep	
890-1010-53	FS53	Total/NA	Solid	8015NM Prep	
890-1010-54	FS54	Total/NA	Solid	8015NM Prep	
890-1010-55	FS55	Total/NA	Solid	8015NM Prep	
890-1010-56	FS56	Total/NA	Solid	8015NM Prep	
MB 880-5839/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5839/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5839/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1010-41 MS	FS41	Total/NA	Solid	8015NM Prep	
890-1010-41 MSD	FS41	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-41	FS41	Total/NA	Solid	8015B NM	5839
890-1010-42	FS42	Total/NA	Solid	8015B NM	5839
890-1010-43	FS43	Total/NA	Solid	8015B NM	5839
890-1010-44	FS44	Total/NA	Solid	8015B NM	5839
890-1010-45	FS45	Total/NA	Solid	8015B NM	5839
890-1010-46	FS46	Total/NA	Solid	8015B NM	5839
890-1010-47	FS47	Total/NA	Solid	8015B NM	5839
890-1010-48	FS48	Total/NA	Solid	8015B NM	5839
890-1010-49	FS49	Total/NA	Solid	8015B NM	5839
890-1010-50	FS50	Total/NA	Solid	8015B NM	5839
890-1010-51	FS51	Total/NA	Solid	8015B NM	5839

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC Semi VOA (Continued)

Analysis Batch: 5854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-52	FS52	Total/NA	Solid	8015B NM	5839
890-1010-53	FS53	Total/NA	Solid	8015B NM	5839
890-1010-54	FS54	Total/NA	Solid	8015B NM	5839
890-1010-55	FS55	Total/NA	Solid	8015B NM	5839
890-1010-56	FS56	Total/NA	Solid	8015B NM	5839
MB 880-5839/1-A	Method Blank	Total/NA	Solid	8015B NM	5839
LCS 880-5839/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5839
LCSD 880-5839/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5839
890-1010-41 MS	FS41	Total/NA	Solid	8015B NM	5839
890-1010-41 MSD	FS41	Total/NA	Solid	8015B NM	5839

Analysis Batch: 5919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-57	FS57	Total/NA	Solid	8015B NM	5772
890-1010-58	FS58	Total/NA	Solid	8015B NM	5772
890-1010-59	FS59	Total/NA	Solid	8015B NM	5772
890-1010-60	FS60	Total/NA	Solid	8015B NM	5772
890-1010-61	FS61	Total/NA	Solid	8015B NM	5772
890-1010-62	FS62	Total/NA	Solid	8015B NM	5772
890-1010-63	FS63	Total/NA	Solid	8015B NM	5772
890-1010-64	FS64	Total/NA	Solid	8015B NM	5772
890-1010-65	FS65	Total/NA	Solid	8015B NM	5772
MB 880-5772/1-A	Method Blank	Total/NA	Solid	8015B NM	5772
LCS 880-5772/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5772
LCSD 880-5772/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5772
890-1007-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	5772
890-1007-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	5772

Analysis Batch: 5928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-1	FS01	Total/NA	Solid	8015B NM	5811
890-1010-2	FS02	Total/NA	Solid	8015B NM	5811
890-1010-3	FS03	Total/NA	Solid	8015B NM	5811
890-1010-4	FS04	Total/NA	Solid	8015B NM	5811
890-1010-5	FS05	Total/NA	Solid	8015B NM	5811
890-1010-6	FS06	Total/NA	Solid	8015B NM	5811
890-1010-7	FS07	Total/NA	Solid	8015B NM	5811
890-1010-8	FS08	Total/NA	Solid	8015B NM	5811
890-1010-9	FS09	Total/NA	Solid	8015B NM	5811
890-1010-10	FS10	Total/NA	Solid	8015B NM	5811
890-1010-11	FS11	Total/NA	Solid	8015B NM	5811
890-1010-12	FS12	Total/NA	Solid	8015B NM	5811
890-1010-13	FS13	Total/NA	Solid	8015B NM	5811
890-1010-14	FS14	Total/NA	Solid	8015B NM	5811
890-1010-15	FS15	Total/NA	Solid	8015B NM	5811
890-1010-16	FS16	Total/NA	Solid	8015B NM	5811
890-1010-17	FS17	Total/NA	Solid	8015B NM	5811
890-1010-18	FS18	Total/NA	Solid	8015B NM	5811
890-1010-19	FS19	Total/NA	Solid	8015B NM	5811
890-1010-20	FS20	Total/NA	Solid	8015B NM	5811
MB 880-5811/1-A	Method Blank	Total/NA	Solid	8015B NM	5811

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

GC Semi VOA (Continued)

Analysis Batch: 5928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-5811/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5811
LCSD 880-5811/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5811
890-1010-1 MS	FS01	Total/NA	Solid	8015B NM	5811
890-1010-1 MSD	FS01	Total/NA	Solid	8015B NM	5811

Analysis Batch: 5930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-21	FS21	Total/NA	Solid	8015B NM	5816
890-1010-22	FS22	Total/NA	Solid	8015B NM	5816
890-1010-23	FS23	Total/NA	Solid	8015B NM	5816
890-1010-24	FS24	Total/NA	Solid	8015B NM	5816
890-1010-25	FS25	Total/NA	Solid	8015B NM	5816
890-1010-26	FS26	Total/NA	Solid	8015B NM	5816
890-1010-27	FS27	Total/NA	Solid	8015B NM	5816
890-1010-28	FS28	Total/NA	Solid	8015B NM	5816
890-1010-29	FS29	Total/NA	Solid	8015B NM	5816
890-1010-30	FS30	Total/NA	Solid	8015B NM	5816
890-1010-31	FS31	Total/NA	Solid	8015B NM	5816
890-1010-32	FS32	Total/NA	Solid	8015B NM	5816
890-1010-33	FS33	Total/NA	Solid	8015B NM	5816
890-1010-34	FS34	Total/NA	Solid	8015B NM	5816
890-1010-35	FS35	Total/NA	Solid	8015B NM	5816
890-1010-36	FS36	Total/NA	Solid	8015B NM	5816
890-1010-37	FS37	Total/NA	Solid	8015B NM	5816
890-1010-38	FS38	Total/NA	Solid	8015B NM	5816
890-1010-39	FS39	Total/NA	Solid	8015B NM	5816
890-1010-40	FS40	Total/NA	Solid	8015B NM	5816
MB 880-5816/1-A	Method Blank	Total/NA	Solid	8015B NM	5816
LCS 880-5816/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5816
LCSD 880-5816/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5816
890-1010-21 MS	FS21	Total/NA	Solid	8015B NM	5816
890-1010-21 MSD	FS21	Total/NA	Solid	8015B NM	5816

HPLC/IC

Leach Batch: 5756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-12	FS12	Soluble	Solid	DI Leach	
890-1010-13	FS13	Soluble	Solid	DI Leach	
890-1010-14	FS14	Soluble	Solid	DI Leach	
890-1010-15	FS15	Soluble	Solid	DI Leach	
890-1010-16	FS16	Soluble	Solid	DI Leach	
890-1010-17	FS17	Soluble	Solid	DI Leach	
890-1010-18	FS18	Soluble	Solid	DI Leach	
890-1010-19	FS19	Soluble	Solid	DI Leach	
890-1010-20	FS20	Soluble	Solid	DI Leach	
890-1010-21	FS21	Soluble	Solid	DI Leach	
890-1010-22	FS22	Soluble	Solid	DI Leach	
890-1010-23	FS23	Soluble	Solid	DI Leach	
890-1010-24	FS24	Soluble	Solid	DI Leach	
890-1010-25	FS25	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

HPLC/IC (Continued)

Leach Batch: 5756 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-26	FS26	Soluble	Solid	DI Leach	
890-1010-27	FS27	Soluble	Solid	DI Leach	
MB 880-5756/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5756/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5756/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1010-18 MS	FS18	Soluble	Solid	DI Leach	
890-1010-18 MSD	FS18	Soluble	Solid	DI Leach	

Leach Batch: 5760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-28	FS28	Soluble	Solid	DI Leach	
890-1010-29	FS29	Soluble	Solid	DI Leach	
890-1010-30	FS30	Soluble	Solid	DI Leach	
890-1010-31	FS31	Soluble	Solid	DI Leach	
890-1010-32	FS32	Soluble	Solid	DI Leach	
890-1010-33	FS33	Soluble	Solid	DI Leach	
890-1010-34	FS34	Soluble	Solid	DI Leach	
890-1010-35	FS35	Soluble	Solid	DI Leach	
890-1010-36	FS36	Soluble	Solid	DI Leach	
890-1010-37	FS37	Soluble	Solid	DI Leach	
890-1010-38	FS38	Soluble	Solid	DI Leach	
890-1010-39	FS39	Soluble	Solid	DI Leach	
890-1010-40	FS40	Soluble	Solid	DI Leach	
890-1010-41	FS41	Soluble	Solid	DI Leach	
890-1010-42	FS42	Soluble	Solid	DI Leach	
890-1010-43	FS43	Soluble	Solid	DI Leach	
890-1010-44	FS44	Soluble	Solid	DI Leach	
890-1010-45	FS45	Soluble	Solid	DI Leach	
890-1010-46	FS46	Soluble	Solid	DI Leach	
890-1010-47	FS47	Soluble	Solid	DI Leach	
MB 880-5760/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5760/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5760/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1010-28 MS	FS28	Soluble	Solid	DI Leach	
890-1010-28 MSD	FS28	Soluble	Solid	DI Leach	
890-1010-38 MS	FS38	Soluble	Solid	DI Leach	
890-1010-38 MSD	FS38	Soluble	Solid	DI Leach	

Leach Batch: 5761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-48	FS48	Soluble	Solid	DI Leach	
890-1010-49	FS49	Soluble	Solid	DI Leach	
890-1010-50	FS50	Soluble	Solid	DI Leach	
890-1010-51	FS51	Soluble	Solid	DI Leach	
890-1010-52	FS52	Soluble	Solid	DI Leach	
890-1010-53	FS53	Soluble	Solid	DI Leach	
890-1010-54	FS54	Soluble	Solid	DI Leach	
890-1010-55	FS55	Soluble	Solid	DI Leach	
890-1010-56	FS56	Soluble	Solid	DI Leach	
890-1010-57	FS57	Soluble	Solid	DI Leach	
890-1010-58	FS58	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

HPLC/IC (Continued)

Leach Batch: 5761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-59	FS59	Soluble	Solid	DI Leach	
890-1010-60	FS60	Soluble	Solid	DI Leach	
890-1010-61	FS61	Soluble	Solid	DI Leach	
890-1010-62	FS62	Soluble	Solid	DI Leach	
890-1010-63	FS63	Soluble	Solid	DI Leach	
MB 880-5761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1010-54 MS	FS54	Soluble	Solid	DI Leach	
890-1010-54 MSD	FS54	Soluble	Solid	DI Leach	

Analysis Batch: 5822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-12	FS12	Soluble	Solid	300.0	5756
890-1010-13	FS13	Soluble	Solid	300.0	5756
890-1010-14	FS14	Soluble	Solid	300.0	5756
890-1010-15	FS15	Soluble	Solid	300.0	5756
890-1010-16	FS16	Soluble	Solid	300.0	5756
890-1010-17	FS17	Soluble	Solid	300.0	5756
890-1010-18	FS18	Soluble	Solid	300.0	5756
890-1010-19	FS19	Soluble	Solid	300.0	5756
890-1010-20	FS20	Soluble	Solid	300.0	5756
890-1010-21	FS21	Soluble	Solid	300.0	5756
890-1010-22	FS22	Soluble	Solid	300.0	5756
890-1010-23	FS23	Soluble	Solid	300.0	5756
890-1010-24	FS24	Soluble	Solid	300.0	5756
890-1010-25	FS25	Soluble	Solid	300.0	5756
890-1010-26	FS26	Soluble	Solid	300.0	5756
890-1010-27	FS27	Soluble	Solid	300.0	5756
MB 880-5756/1-A	Method Blank	Soluble	Solid	300.0	5756
LCS 880-5756/2-A	Lab Control Sample	Soluble	Solid	300.0	5756
LCSD 880-5756/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5756
890-1010-18 MS	FS18	Soluble	Solid	300.0	5756
890-1010-18 MSD	FS18	Soluble	Solid	300.0	5756

Analysis Batch: 5824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-28	FS28	Soluble	Solid	300.0	5760
890-1010-29	FS29	Soluble	Solid	300.0	5760
890-1010-30	FS30	Soluble	Solid	300.0	5760
890-1010-31	FS31	Soluble	Solid	300.0	5760
890-1010-32	FS32	Soluble	Solid	300.0	5760
890-1010-33	FS33	Soluble	Solid	300.0	5760
890-1010-34	FS34	Soluble	Solid	300.0	5760
890-1010-35	FS35	Soluble	Solid	300.0	5760
890-1010-36	FS36	Soluble	Solid	300.0	5760
890-1010-37	FS37	Soluble	Solid	300.0	5760
890-1010-38	FS38	Soluble	Solid	300.0	5760
890-1010-39	FS39	Soluble	Solid	300.0	5760
890-1010-40	FS40	Soluble	Solid	300.0	5760
890-1010-41	FS41	Soluble	Solid	300.0	5760

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

HPLC/IC (Continued)

Analysis Batch: 5824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-42	FS42	Soluble	Solid	300.0	5760
890-1010-43	FS43	Soluble	Solid	300.0	5760
890-1010-44	FS44	Soluble	Solid	300.0	5760
890-1010-45	FS45	Soluble	Solid	300.0	5760
890-1010-46	FS46	Soluble	Solid	300.0	5760
890-1010-47	FS47	Soluble	Solid	300.0	5760
MB 880-5760/1-A	Method Blank	Soluble	Solid	300.0	5760
LCS 880-5760/2-A	Lab Control Sample	Soluble	Solid	300.0	5760
LCSD 880-5760/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5760
890-1010-28 MS	FS28	Soluble	Solid	300.0	5760
890-1010-28 MSD	FS28	Soluble	Solid	300.0	5760
890-1010-38 MS	FS38	Soluble	Solid	300.0	5760
890-1010-38 MSD	FS38	Soluble	Solid	300.0	5760

Analysis Batch: 5831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-48	FS48	Soluble	Solid	300.0	5761
890-1010-49	FS49	Soluble	Solid	300.0	5761
890-1010-50	FS50	Soluble	Solid	300.0	5761
890-1010-51	FS51	Soluble	Solid	300.0	5761
890-1010-52	FS52	Soluble	Solid	300.0	5761
890-1010-53	FS53	Soluble	Solid	300.0	5761
890-1010-54	FS54	Soluble	Solid	300.0	5761
890-1010-55	FS55	Soluble	Solid	300.0	5761
890-1010-56	FS56	Soluble	Solid	300.0	5761
890-1010-57	FS57	Soluble	Solid	300.0	5761
890-1010-58	FS58	Soluble	Solid	300.0	5761
890-1010-59	FS59	Soluble	Solid	300.0	5761
890-1010-60	FS60	Soluble	Solid	300.0	5761
890-1010-61	FS61	Soluble	Solid	300.0	5761
890-1010-62	FS62	Soluble	Solid	300.0	5761
890-1010-63	FS63	Soluble	Solid	300.0	5761
MB 880-5761/1-A	Method Blank	Soluble	Solid	300.0	5761
LCS 880-5761/2-A	Lab Control Sample	Soluble	Solid	300.0	5761
LCSD 880-5761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5761
890-1010-54 MS	FS54	Soluble	Solid	300.0	5761
890-1010-54 MSD	FS54	Soluble	Solid	300.0	5761

Leach Batch: 5980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-64	FS64	Soluble	Solid	DI Leach	
890-1010-65	FS65	Soluble	Solid	DI Leach	
MB 880-5980/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5980/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5980/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4477-A-21-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-4477-A-21-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 6010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-1	FS01	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

HPLC/IC (Continued)

Leach Batch: 6010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-2	FS02	Soluble	Solid	DI Leach	
890-1010-3	FS03	Soluble	Solid	DI Leach	
890-1010-4	FS04	Soluble	Solid	DI Leach	
890-1010-5	FS05	Soluble	Solid	DI Leach	
890-1010-6	FS06	Soluble	Solid	DI Leach	
890-1010-7	FS07	Soluble	Solid	DI Leach	
890-1010-8	FS08	Soluble	Solid	DI Leach	
890-1010-9	FS09	Soluble	Solid	DI Leach	
890-1010-10	FS10	Soluble	Solid	DI Leach	
890-1010-11	FS11	Soluble	Solid	DI Leach	
MB 880-6010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1010-2 MS	FS02	Soluble	Solid	DI Leach	
890-1010-2 MSD	FS02	Soluble	Solid	DI Leach	

Analysis Batch: 6020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-1	FS01	Soluble	Solid	300.0	6010
890-1010-2	FS02	Soluble	Solid	300.0	6010
890-1010-3	FS03	Soluble	Solid	300.0	6010
890-1010-4	FS04	Soluble	Solid	300.0	6010
890-1010-5	FS05	Soluble	Solid	300.0	6010
890-1010-6	FS06	Soluble	Solid	300.0	6010
890-1010-7	FS07	Soluble	Solid	300.0	6010
890-1010-8	FS08	Soluble	Solid	300.0	6010
890-1010-9	FS09	Soluble	Solid	300.0	6010
890-1010-10	FS10	Soluble	Solid	300.0	6010
890-1010-11	FS11	Soluble	Solid	300.0	6010
MB 880-6010/1-A	Method Blank	Soluble	Solid	300.0	6010
LCS 880-6010/2-A	Lab Control Sample	Soluble	Solid	300.0	6010
LCSD 880-6010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6010
890-1010-2 MS	FS02	Soluble	Solid	300.0	6010
890-1010-2 MSD	FS02	Soluble	Solid	300.0	6010

Analysis Batch: 6067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1010-64	FS64	Soluble	Solid	300.0	5980
890-1010-65	FS65	Soluble	Solid	300.0	5980
MB 880-5980/1-A	Method Blank	Soluble	Solid	300.0	5980
LCS 880-5980/2-A	Lab Control Sample	Soluble	Solid	300.0	5980
LCSD 880-5980/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5980
880-4477-A-21-F MS	Matrix Spike	Soluble	Solid	300.0	5980
880-4477-A-21-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	5980

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS01

Lab Sample ID: 890-1010-1

Date Collected: 07/26/21 13:30

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 02:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:22	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1010-2

Date Collected: 07/26/21 13:33

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 03:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 14:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:28	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1010-3

Date Collected: 07/26/21 13:36

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 04:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:44	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-1010-4

Date Collected: 07/26/21 13:39

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 04:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 01:49	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS05

Lab Sample ID: 890-1010-5

Date Collected: 07/26/21 13:42

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 05:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 15:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 02:05	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-1010-6

Date Collected: 07/26/21 13:45

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 05:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 02:11	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-1010-7

Date Collected: 07/26/21 13:48

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 05:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 02:16	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-1010-8

Date Collected: 07/26/21 13:51

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 06:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 02:22	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS09

Lab Sample ID: 890-1010-9

Date Collected: 07/26/21 13:54

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 06:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		1			6020	08/04/21 02:27	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-1010-10

Date Collected: 07/26/21 13:57

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 06:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 17:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			6020	08/04/21 02:32	CH	XEN MID

Client Sample ID: FS11

Lab Sample ID: 890-1010-11

Date Collected: 07/26/21 14:00

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 07:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6010	08/03/21 11:49	CH	XEN MID
Soluble	Analysis	300.0		5			6020	08/04/21 02:38	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-1010-12

Date Collected: 07/26/21 14:03

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5730	07/28/21 08:43	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5734	07/29/21 07:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 18:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 22:29	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS13

Lab Sample ID: 890-1010-13

Date Collected: 07/26/21 14:06

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 13:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 22:45	CH	XEN MID

Client Sample ID: FS14

Lab Sample ID: 890-1010-14

Date Collected: 07/26/21 14:09

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 14:14	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 22:50	CH	XEN MID

Client Sample ID: FS15

Lab Sample ID: 890-1010-15

Date Collected: 07/26/21 14:12

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 14:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 22:55	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-1010-16

Date Collected: 07/26/21 14:15

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 14:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 23:01	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS17

Lab Sample ID: 890-1010-17

Date Collected: 07/26/21 14:18

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 15:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		1			5822	07/29/21 23:06	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-1010-18

Date Collected: 07/26/21 14:21

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 15:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 20:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 23:12	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-1010-19

Date Collected: 07/26/21 14:24

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 15:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 20:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 23:28	CH	XEN MID

Client Sample ID: FS20

Lab Sample ID: 890-1010-20

Date Collected: 07/26/21 14:27

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 16:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5811	07/29/21 13:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5928	08/01/21 20:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 23:33	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS21

Lab Sample ID: 890-1010-21

Date Collected: 07/26/21 14:30

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 16:37	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		1			5822	07/29/21 23:49	CH	XEN MID

Client Sample ID: FS22

Lab Sample ID: 890-1010-22

Date Collected: 07/26/21 14:33

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 16:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 14:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/29/21 23:55	CH	XEN MID

Client Sample ID: FS23

Lab Sample ID: 890-1010-23

Date Collected: 07/26/21 14:36

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 18:47	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/30/21 00:00	CH	XEN MID

Client Sample ID: FS24

Lab Sample ID: 890-1010-24

Date Collected: 07/26/21 14:39

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 19:08	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		1			5822	07/30/21 00:06	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS25

Lab Sample ID: 890-1010-25

Date Collected: 07/26/21 01:42

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 19:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 15:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/30/21 00:11	CH	XEN MID

Client Sample ID: FS26

Lab Sample ID: 890-1010-26

Date Collected: 07/26/21 14:45

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 19:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/30/21 00:16	CH	XEN MID

Client Sample ID: FS27

Lab Sample ID: 890-1010-27

Date Collected: 07/26/21 14:48

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 20:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5756	07/28/21 13:46	CH	XEN MID
Soluble	Analysis	300.0		5			5822	07/30/21 00:22	CH	XEN MID

Client Sample ID: FS28

Lab Sample ID: 890-1010-28

Date Collected: 07/26/21 14:51

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 20:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 17:07	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS29

Lab Sample ID: 890-1010-29

Date Collected: 07/26/21 14:54

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 20:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		10			5824	07/29/21 17:24	CH	XEN MID

Client Sample ID: FS30

Lab Sample ID: 890-1010-30

Date Collected: 07/26/21 14:57

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 21:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 17:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 17:29	CH	XEN MID

Client Sample ID: FS31

Lab Sample ID: 890-1010-31

Date Collected: 07/26/21 15:00

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 21:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 17:35	CH	XEN MID

Client Sample ID: FS32

Lab Sample ID: 890-1010-32

Date Collected: 07/26/21 15:03

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5736	07/28/21 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/28/21 21:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 18:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 17:40	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS33

Lab Sample ID: 890-1010-33

Date Collected: 07/26/21 15:06

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 03:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 17:57	CH	XEN MID

Client Sample ID: FS34

Lab Sample ID: 890-1010-34

Date Collected: 07/26/21 15:09

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 04:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			5824	07/29/21 18:02	CH	XEN MID

Client Sample ID: FS35

Lab Sample ID: 890-1010-35

Date Collected: 07/26/21 15:12

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 04:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 18:08	CH	XEN MID

Client Sample ID: FS36

Lab Sample ID: 890-1010-36

Date Collected: 07/26/21 15:18

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 04:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			5824	07/29/21 18:13	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS37

Lab Sample ID: 890-1010-37

Date Collected: 07/26/21 15:21

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 05:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 18:19	CH	XEN MID

Client Sample ID: FS38

Lab Sample ID: 890-1010-38

Date Collected: 07/26/21 15:24

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 05:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 20:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			5824	07/29/21 18:24	CH	XEN MID

Client Sample ID: FS39

Lab Sample ID: 890-1010-39

Date Collected: 07/26/21 15:27

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 05:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 20:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 18:41	CH	XEN MID

Client Sample ID: FS40

Lab Sample ID: 890-1010-40

Date Collected: 07/26/21 15:30

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 06:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5816	07/29/21 13:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5930	08/01/21 20:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			5824	07/29/21 18:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS41

Lab Sample ID: 890-1010-41

Date Collected: 07/26/21 15:33

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 06:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 11:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 19:03	CH	XEN MID

Client Sample ID: FS42

Lab Sample ID: 890-1010-42

Date Collected: 07/26/21 15:36

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 06:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		10			5824	07/29/21 19:08	CH	XEN MID

Client Sample ID: FS43

Lab Sample ID: 890-1010-43

Date Collected: 07/26/21 15:39

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 08:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 14:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		10			5824	07/29/21 19:14	CH	XEN MID

Client Sample ID: FS44

Lab Sample ID: 890-1010-44

Date Collected: 07/26/21 15:42

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 08:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 15:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		10			5824	07/29/21 19:19	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS45

Lab Sample ID: 890-1010-45

Date Collected: 07/26/21 15:45

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 08:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 15:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		10			5824	07/29/21 19:25	CH	XEN MID

Client Sample ID: FS46

Lab Sample ID: 890-1010-46

Date Collected: 07/26/21 15:48

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 09:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 15:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		5			5824	07/29/21 19:30	CH	XEN MID

Client Sample ID: FS47

Lab Sample ID: 890-1010-47

Date Collected: 07/26/21 15:51

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 09:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5760	07/28/21 13:52	CH	XEN MID
Soluble	Analysis	300.0		1			5824	07/29/21 19:36	CH	XEN MID

Client Sample ID: FS48

Lab Sample ID: 890-1010-48

Date Collected: 07/26/21 15:54

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 10:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		1			5831	07/29/21 20:53	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS49

Lab Sample ID: 890-1010-49

Date Collected: 07/26/21 15:57

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 10:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 17:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:09	CH	XEN MID

Client Sample ID: FS50

Lab Sample ID: 890-1010-50

Date Collected: 07/26/21 16:00

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 10:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:15	CH	XEN MID

Client Sample ID: FS51

Lab Sample ID: 890-1010-51

Date Collected: 07/26/21 16:03

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 11:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:20	CH	XEN MID

Client Sample ID: FS52

Lab Sample ID: 890-1010-52

Date Collected: 07/26/21 16:06

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5732	07/28/21 08:49	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5737	07/29/21 11:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 18:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:26	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS53

Lab Sample ID: 890-1010-53

Date Collected: 07/26/21 16:09

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 01:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		1			5831	07/29/21 21:31	CH	XEN MID

Client Sample ID: FS54

Lab Sample ID: 890-1010-54

Date Collected: 07/26/21 16:12

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 01:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:37	CH	XEN MID

Client Sample ID: FS55

Lab Sample ID: 890-1010-55

Date Collected: 07/26/21 16:15

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 02:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:53	CH	XEN MID

Client Sample ID: FS56

Lab Sample ID: 890-1010-56

Date Collected: 07/26/21 16:18

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 02:29	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5839	07/29/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5854	07/30/21 19:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 21:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS57

Lab Sample ID: 890-1010-57

Date Collected: 07/26/21 16:21

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 02:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 16:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		1			5831	07/29/21 22:15	CH	XEN MID

Client Sample ID: FS58

Lab Sample ID: 890-1010-58

Date Collected: 07/26/21 16:24

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 03:10	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 16:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		1			5831	07/29/21 22:21	CH	XEN MID

Client Sample ID: FS59

Lab Sample ID: 890-1010-59

Date Collected: 07/26/21 16:27

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 03:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 17:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 22:26	CH	XEN MID

Client Sample ID: FS60

Lab Sample ID: 890-1010-60

Date Collected: 07/26/21 16:30

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 03:51	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		10			5831	07/29/21 22:32	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS61

Lab Sample ID: 890-1010-61

Date Collected: 07/26/21 16:33

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 04:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 22:37	CH	XEN MID

Client Sample ID: FS62

Lab Sample ID: 890-1010-62

Date Collected: 07/26/21 16:36

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 04:32	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		5			5831	07/29/21 22:43	CH	XEN MID

Client Sample ID: FS63

Lab Sample ID: 890-1010-63

Date Collected: 07/26/21 16:39

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 06:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5761	07/28/21 13:54	CH	XEN MID
Soluble	Analysis	300.0		1			5831	07/29/21 22:48	CH	XEN MID

Client Sample ID: FS64

Lab Sample ID: 890-1010-64

Date Collected: 07/26/21 16:42

Matrix: Solid

Date Received: 07/27/21 13:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 06:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 18:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5980	08/02/21 14:10	CH	XEN MID
Soluble	Analysis	300.0		5			6067	08/06/21 09:42	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Client Sample ID: FS65
Date Collected: 07/26/21 16:42
Date Received: 07/27/21 13:06

Lab Sample ID: 890-1010-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5738	07/28/21 09:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5733	07/29/21 07:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5772	07/28/21 16:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5919	07/31/21 19:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5980	08/02/21 14:10	CH	XEN MID
Soluble	Analysis	300.0		5			6067	08/06/21 09:48	CH	XEN MID

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1010-1	FS01	Solid	07/26/21 13:30	07/27/21 13:06	- 1
890-1010-2	FS02	Solid	07/26/21 13:33	07/27/21 13:06	- 1
890-1010-3	FS03	Solid	07/26/21 13:36	07/27/21 13:06	- 1
890-1010-4	FS04	Solid	07/26/21 13:39	07/27/21 13:06	1 - 3
890-1010-5	FS05	Solid	07/26/21 13:42	07/27/21 13:06	- 1
890-1010-6	FS06	Solid	07/26/21 13:45	07/27/21 13:06	- 1
890-1010-7	FS07	Solid	07/26/21 13:48	07/27/21 13:06	1 - 4
890-1010-8	FS08	Solid	07/26/21 13:51	07/27/21 13:06	2 - 4
890-1010-9	FS09	Solid	07/26/21 13:54	07/27/21 13:06	- 4
890-1010-10	FS10	Solid	07/26/21 13:57	07/27/21 13:06	- 4
890-1010-11	FS11	Solid	07/26/21 14:00	07/27/21 13:06	- 4
890-1010-12	FS12	Solid	07/26/21 14:03	07/27/21 13:06	- 4
890-1010-13	FS13	Solid	07/26/21 14:06	07/27/21 13:06	- 4
890-1010-14	FS14	Solid	07/26/21 14:09	07/27/21 13:06	- 4
890-1010-15	FS15	Solid	07/26/21 14:12	07/27/21 13:06	- 4
890-1010-16	FS16	Solid	07/26/21 14:15	07/27/21 13:06	- 4
890-1010-17	FS17	Solid	07/26/21 14:18	07/27/21 13:06	- 4
890-1010-18	FS18	Solid	07/26/21 14:21	07/27/21 13:06	- 4
890-1010-19	FS19	Solid	07/26/21 14:24	07/27/21 13:06	- 4
890-1010-20	FS20	Solid	07/26/21 14:27	07/27/21 13:06	- 4
890-1010-21	FS21	Solid	07/26/21 14:30	07/27/21 13:06	- 4
890-1010-22	FS22	Solid	07/26/21 14:33	07/27/21 13:06	- 4
890-1010-23	FS23	Solid	07/26/21 14:36	07/27/21 13:06	- 4
890-1010-24	FS24	Solid	07/26/21 14:39	07/27/21 13:06	- 4
890-1010-25	FS25	Solid	07/26/21 01:42	07/27/21 13:06	- 4
890-1010-26	FS26	Solid	07/26/21 14:45	07/27/21 13:06	- 4
890-1010-27	FS27	Solid	07/26/21 14:48	07/27/21 13:06	- 4
890-1010-28	FS28	Solid	07/26/21 14:51	07/27/21 13:06	- 4
890-1010-29	FS29	Solid	07/26/21 14:54	07/27/21 13:06	- 4
890-1010-30	FS30	Solid	07/26/21 14:57	07/27/21 13:06	- 4
890-1010-31	FS31	Solid	07/26/21 15:00	07/27/21 13:06	- 4
890-1010-32	FS32	Solid	07/26/21 15:03	07/27/21 13:06	- 4
890-1010-33	FS33	Solid	07/26/21 15:06	07/27/21 13:06	- 4
890-1010-34	FS34	Solid	07/26/21 15:09	07/27/21 13:06	- 4
890-1010-35	FS35	Solid	07/26/21 15:12	07/27/21 13:06	- 4
890-1010-36	FS36	Solid	07/26/21 15:18	07/27/21 13:06	- 4
890-1010-37	FS37	Solid	07/26/21 15:21	07/27/21 13:06	- 4
890-1010-38	FS38	Solid	07/26/21 15:24	07/27/21 13:06	- 4
890-1010-39	FS39	Solid	07/26/21 15:27	07/27/21 13:06	- 4
890-1010-40	FS40	Solid	07/26/21 15:30	07/27/21 13:06	- 4
890-1010-41	FS41	Solid	07/26/21 15:33	07/27/21 13:06	- 4
890-1010-42	FS42	Solid	07/26/21 15:36	07/27/21 13:06	- 4
890-1010-43	FS43	Solid	07/26/21 15:39	07/27/21 13:06	- 4
890-1010-44	FS44	Solid	07/26/21 15:42	07/27/21 13:06	- 4
890-1010-45	FS45	Solid	07/26/21 15:45	07/27/21 13:06	- 4
890-1010-46	FS46	Solid	07/26/21 15:48	07/27/21 13:06	- 4
890-1010-47	FS47	Solid	07/26/21 15:51	07/27/21 13:06	- 4
890-1010-48	FS48	Solid	07/26/21 15:54	07/27/21 13:06	- 4
890-1010-49	FS49	Solid	07/26/21 15:57	07/27/21 13:06	- 4
890-1010-50	FS50	Solid	07/26/21 16:00	07/27/21 13:06	- 4
890-1010-51	FS51	Solid	07/26/21 16:03	07/27/21 13:06	- 4
890-1010-52	FS52	Solid	07/26/21 16:06	07/27/21 13:06	- 4
890-1010-53	FS53	Solid	07/26/21 16:09	07/27/21 13:06	- 4
890-1010-54	FS54	Solid	07/26/21 16:12	07/27/21 13:06	- 4

Sample Summary

Client: WSP USA Inc.
Project/Site: Santa Fe 8

Job ID: 890-1010-1
SDG: TE034821008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1010-55	FS55	Solid	07/26/21 16:15	07/27/21 13:06	- 4
890-1010-56	FS56	Solid	07/26/21 16:18	07/27/21 13:06	- 4
890-1010-57	FS57	Solid	07/26/21 16:21	07/27/21 13:06	- 4
890-1010-58	FS58	Solid	07/26/21 16:24	07/27/21 13:06	- 4
890-1010-59	FS59	Solid	07/26/21 16:27	07/27/21 13:06	- 4
890-1010-60	FS60	Solid	07/26/21 16:30	07/27/21 13:06	- 4
890-1010-61	FS61	Solid	07/26/21 16:33	07/27/21 13:06	- 4
890-1010-62	FS62	Solid	07/26/21 16:36	07/27/21 13:06	- 4
890-1010-63	FS63	Solid	07/26/21 16:39	07/27/21 13:06	- 4
890-1010-64	FS64	Solid	07/26/21 16:42	07/27/21 13:06	- 4
890-1010-65	FS65	Solid	07/26/21 16:42	07/27/21 13:06	- 4



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Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 7

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LUMBACH
Company Name:	WSP USA	Company Name:	WSP ENERGY
Address:	3300 NORTH A STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(817) 702-2329	Email:	anna.byars@wsp.com

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

Project Name:	Sanita Fe S	Turn Around	☒ Routine ☐ Rush
Project Number:	TE034821008	Due Date:	
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	ANNA BYARS		
PO #:	see comments		
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No	
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID: 7701003	
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor: 2.2	
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading: 2.0	
Total Containers:	Corrected Temperature:		

Parameters
BTEX (EPA 8021B)
TPH (EPA 8015 Mod)
Chloride (EPA 8000)



890-1010 Chain of Custody

ANALYSIS REQUEST		Preservative Codes
		None: NO
		DI Water: H ₂ O
		Cool: Cool
		MeOH: Me
		HCL: HC
		HNO ₃ : HN
		H ₂ SO ₄ : H ₂
		NaOH: Na
		H ₃ PO ₄ : HP
		NaHSO ₄ : NABIS
		Na ₂ S ₂ O ₃ : NaSO ₃
		Zn Acetate+NaOH: Zn
		NaOH+Ascorbic Acid: SAFC

Sample Identification

Matrix

Date Sampled

Time Sampled

Depth

Grab/Comp

of Cont

Parameters

Sample Comments

Incident #s:

NAHMP1407233282

NAH1432930692

NAH1830158135

NAH1830158135

NAH1830158135

NAH1830158135

NAH1830158135

NAH1830158135

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

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Page 2 of 7

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LAUMBACH
Company Name:	WSP USA	Company Name:	WFX ENERGY
Address:	3300 NORTH A STREET	Address:	5315 BUENAVISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88225
Phone:	(801) 302-7329	Email:	anna.buyers@wsp.com

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

Project Name:		Santa Fe		Turn Around				ANALYSIS REQUEST										Preservative Codes			
Project Number:		TE634821008		☒ Routine ☐ Rush														None: NO		DI Water: H ₂ O	
Project Location:		EDDY COUNTY		Due Date:														Cool: Cool		MeOH: Me	
Sampler's Name:		ANNA BYERS		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC		HNO ₃ : HN	
PO #:		see comments																H ₂ SO ₄ : H ₂		NaOH: Na	
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No								H ₃ PO ₄ : HP			
Samples Received Intact:		Yes No		Thermometer ID:														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes No N/A		Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes No N/A		Temperature Reading:														Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:														NaOH+Ascorbic Acid: SANC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont.	BTP	TPH	CHI
F811	S	7/26/02	1400	4'	Comp	1	X	X	X
F812			1403			1	X	X	X
F813			1406			1	X	X	X
F814			1409			1	X	X	X
F815			1412			1	X	X	X
F816			1415			1	X	X	X
F817			1418			1	X	X	X
F818			1421			1	X	X	X
F819			1424			1	X	X	X
F820			1427			1	X	X	X

	200.7 / 6010	200.8 / 6020:	
Total	200.7 / 6010	200.8 / 6020:	
Cycle-Method(s) and Material(s) to be analyzed	8RCRA TCLP/SPLP 6010: 8RCRA	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SnO ₂ Na Sr Hf Sn U V Zn	
	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		
		Hg: 1631/245.1/7470 / 7471	

Notwithstanding to whom this document is addressed, the signature of the client constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Luna Byrns</i>	<i>Chae Jung</i>	7-27-21 1500			
3			4		
5			6		

Revised Date: 08/26/2020 Rev. 2020



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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No. _____

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Page 3 of 7

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA HUMBACH
Company Name:	WSP USA	Company Name:	WSP ENERGY
Address:	3300 NORTHA STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88225
Phone:	(281) 792-2329	Email:	anna.byers@wsp.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____		Work Order Comments _____ _____ _____
---	--	---

Project Name:	Santa Fe	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE034821008	Due Date:			
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	ANNA BYERS				
PO #:	SEE COMMENTS				
SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes
Samples Received Intact:	Thermometer ID:	Yes	No	Yes	No
Cooler Custody Seals:	Correction Factor:	Yes	No	Yes	No
Sample Custody Seals:	Temperature Reading:	Yes	No	Yes	No
Total Containers:	Corrected Temperature:	Yes	No	Yes	No

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
FS21	S	7/24/21	1430	4'	Comp	1	BTEX (EPA 8021B)		None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP
FS22			1433			1	TPH (EPA 8015 MOD)		
FS23			1436			1	Chloride (EPA 8000)		
FS24			1439			1			
FS25			1442			1			
FS26			1445			1			
FS27			1448			1			
FS28			1451			1			
FS29			1454			1			
FS30			1457			1			

Total 200.7 / 6010	200.8 / 6020:	BRCA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	TI	Sa	U	V	Zn
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Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: BRCA	Sb As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Hg: 1631 / 245.1 / 7470 / 7471
--	--	------------------------	--	--------------------------------

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers	[Signature]	7-27-21			



Environment Testing
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Work Order No: _____

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Page 4 of 7

Project Manager:	JOSPH HERNANDEZ	Bill to: (if different)	LYNDA LUMBACH
Company Name:	WSP USA	Company Name:	WSP ENERGY
Address:	3300 NORTHA STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CHANDLER, NM 88225
Phone:	(281) 792-7329	Email:	anna.byers@wsp.com

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

Project Name:	Santa Fe	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes	
Project Number:	TE034821008	Due Date:																			None: NO	
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm																			DI Water: H ₂ O	
Sampler's Name:	ANNA BYERS	Temp Blank:	Yes No	Thermometer ID:	Yes No																	Cool: Cool
PO #:	see comments	Correction Factor:	Yes No	Well Ice:	Yes No																	HCL: HC
SAMPLE RECEIPT		Temperature Reading:	Yes No	Corrected Temperature:																		H ₂ SO ₄ : H ₂
Samples Received Intact:	Yes No																					H ₃ PO ₄ : HP
Cooler Custody Seals:	Yes No																					NaHSO ₄ : NABIS
Sample Custody Seals:	Yes No																					Na ₂ S ₂ O ₃ : NaSO ₃
Total Containers:	Corrected Temperature:																					Zn Acetate+NaOH: Zn
																						NaOH+Ascorbic Acid: SAFC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters																Sample Comments
F531	S	7/26/21	15:40	4'	Comp	1	BTEX (EPA 801.21B)																Incident #s:
F532			15:43			1	TPH (EPA 801.5 Mod)																011101407233282
F533			15:46			1	Chloride (EPA 801.0)																1111132934092
F534			15:49			1																	1111132934092
F535			15:12			1																	1111132934092
F536			15:15			1																	
F537			15:18			1																	
F538			15:21			1																	
F539			15:24			1																	
F540			15:27			1																	

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Matrix to be analyzed		TCIP / SPLP 6010: 8RCRA		Sb As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.		Relinquished by: (Signature)		Received by: (Signature)	
Date/Time		Date/Time		Date/Time	
1 Anne Byers		7-27-21			
3					
5					



Environment Testing
Xenco

Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No. _____

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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA HUMBACH
Company Name:	WSP USA	Company Name:	WFX ENERGY
Address:	3300 NORTH STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88225
Phone:	(281) 792-2329	Email:	anna.byers@wsp.com

Work Order Comments Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____	
---	--

Project Name:	Santa Fe	Turn Around	☒ Routine ☐ Rush	Prac. Code	
Project Number:	TE034821008	Due Date:			
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by Adipm			
Sampler's Name:	ANNA BYERS				
PO #:	SEE COMMENTS				
SAMPLE RECEIPT	Temp Blank:	Yes No	Merice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No	Correction Factor:			
Sample Custody Seals:	Yes No	Temperature Reading:			
Total Containers:	Yes No	Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST																			Preservative Codes		Sample Comments	
ES41	S	7/24/21	1530	4'	Comp	1	X	X	X																				Incident #s:
FS42			1533			1	X	X	X																				01MP1407233282
FS43			1536			1	X	X	X																				MP01432930092
FS44			1539			1	X	X	X																				MP01830158035
FS45			1542			1	X	X	X																				
FS46			1545			1	X	X	X																				
FS47			1548			1	X	X	X																				
FS48			1551			1	X	X	X																				
FS49			1554			1	X	X	X																				
FS50			1557			1	X	X	X																				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Cycle Method(s) and Material(s) to be analyzed: TCIP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Anna Byers	Clare Cuff	7.27.21			



Environment Testing
Xenco

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

Chain of Custody

Work Order No. _____

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Page

6 of 7

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA HUMBACH
Company Name:	WSP USA	Company Name:	WSP ENERGY
Address:	3300 NORTHA STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88225
Phone:	(801) 702-2329	Email:	anna.byers@wsp.com

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

Project Name:	Santa Fe 8	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	TE034821008	Due Date:				None: NO DI Water: H ₂ O
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm				Cool: Cool MeOH: Me
Sampler's Name:	ANNA BYERS					HCL: HC HNO ₃ : HN
PO #:	see comments					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No				H ₃ PO ₄ : HP
Samples Received Intact:	Yes No	Thermometer ID: (ES)				NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No N/A	Correction Factor:				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No N/A	Temperature Reading:				Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:					NaOH+Ascorbic Acid: SACP

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters																Sample Comments
ES51	S	7/24/21	1600	4'	Comp	1	BTEX (EPA 821B)																Incident #51
ES52			1603			1	TPH (EPA 815 Mod)																01111407233282
ES53			1606			1	Chloride (EPA 800.0)																11111432930692
ES54			1609			1																	11111432930692
ES55			1612			1																	11111432930692
ES56			1615			1																	11111432930692
ES57			1618			1																	11111432930692
ES58			1621			1																	11111432930692
ES59			1624			1																	11111432930692
ES60			1627			1																	11111432930692

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Cite Method(s) and Matrix to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Anna Byers	Chae Cui	7.27.21 1307			



Environment Testing
Xenco

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 4

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LUMBACH
Company Name:	WSP USA	Company Name:	WSP ENERGY
Address:	3300 NORTH A STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88213
Phone:	(817) 232-2329	Email:	anna.byers@wsp.com

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

Project Name:	Santa Fe 8	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE034821008	Due Date:			
Project Location:	EDDY COUNTY	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	ANNA BYERS				
PO #:	SEE COMMENTS				
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No			
Samples Received In tact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	TPH	Chl	Incident #s:
FS61	S	7/26/21	1030	4'	Comp	1	X	X	X	ATMP1407233282
FS62			1033			1	X	X	X	NAB1432930692
FS63			1036			1	X	X	X	NAB18301581035
FS64			1039			1	X	X	X	
FS65			1042			1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Ne Sr Ti Sn U V Zn

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers	Joe City	7-27-21			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1010-1

SDG Number: TE034821008

Login Number: 1010

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1010-1

SDG Number: TE034821008

Login Number: 1010

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

List Creation: 07/28/21 10:58 AM

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 45702

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 45702
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	10/1/2021