

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2129351684
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Armstrong Energy Corporation	OGRID: 1092
Contact Name: Jeffery Tew	Contact Telephone: 575-623-2999
Contact email: jtew@aecn.com	Incident #: NAPP2129351684
Contact mailing address: P.O. Box 1973 Roswell, NM 88202-1973	

Location of Release Source

Latitude 33.2560768 Longitude -103.082695
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Trinity Burrus Abo Unit #26	Site Type: Production Facility
Date Release Discovered: October 20, 2021	API# (if applicable): 30-025-35985

Unit Letter	Section	Township	Range	County
B	27	12S	38E	LEA

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls): 91 bbl	Volume Recovered (bbls): 16 bbl
☐ Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The production tank failed causing crude oil to spill into the earthen berm containment. A vacuum truck was dispatched to remove freestanding fluids. A third-party contractor has been retained for remediation activities.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A release greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Kyler Alpers to NMOCD via email on Thursday, October 20, 2021.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: N/A
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Jeffery Tew</u> Title: <u>Operations Engineer</u> Signature: <u></u> Date: <u>10/28/2021</u> email: <u>jtew@aecnm.com</u> Telephone: <u>575-623-2999</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>11/1/2021</u>

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2129351684
District RP	
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Printed Name: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 10/28/2021

email: jtew@aecn.com Telephone: 575-623-2999

OCD Only

Received by: Ramona Marcus Date: 11/1/2021

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 58499

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 58499
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	12/3/2021

Incident ID	NAPP2129351684
District RP	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</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	NAP2129351684
District RP	
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Printed Name: Jeffery Tew Title: Operations EngineerSignature:  Date: 02/18/2022email: jtew@aecnm.com Telephone: 575-623-2999**OCD Only**

Received by: _____ Date: _____

Incident ID	NAP2129351684
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Closure

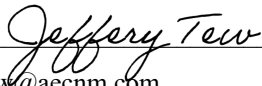
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

Signature:  Date: 02/18/2022

email: jtew@aecnm.com Telephone: 575-623-2999

OCD Only

Received by: Chad Hensley Date: 03/22/2022

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: 03/22/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



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

February 18, 2022

District 1 - Hobbs
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Closure Request
Trinity Burrus Abo Unit #26
Incident Number NAPP2129351684
Lea County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of Armstrong Energy Corporation (Armstrong), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Trinity Burrus Abo Unit #26 (Site), located in Unit B, Section 27, Township 12 South, Range 38 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil at the Site. Based on the excavation activities and confirmation soil analytical results, Armstrong is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2129351684.

RELEASE BACKGROUND

On October 20, 2021, a production tank failed, resulting in a release of 91 barrels (bbls) of crude oil into the tank battery earthen containment. A vacuum truck was dispatched to remove freestanding fluids and 16 bbls of crude oil were recovered. Armstrong immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on October 20, 2021. A Release Notification and Corrective Action Form (Form C-141) was submitted on October 28, 2021 and was subsequently assigned Incident Number NAPP2129351684.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 331518103044201, located approximately 0.34 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 23 feet bgs and a total depth of



100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is a freshwater pond, located approximately 352 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On October 25, 2021 WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within the release extent at a depth of approximately 0.5 feet bgs to assess surficial soil conditions within the release extent. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site assessment and a photographic log is included in Attachment 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gas range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated TPH concentrations exceed the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, additional delineation activities were scheduled.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On November 15, 2021, WSP returned to the Site to evaluate the vertical extent of impacts to soil. WSP advanced six potholes (PH01 through PH06) via a track mounted backhoe within and around the release extent to assess for the presence or absence of impacted subsurface soil. The potholes were advanced to a maximum depth of 11 feet bgs. Three to four delineation soil samples were collected from each pothole at depths ranging from 2 feet bgs to 11 feet bgs, including screening interval exhibiting the highest field screening results and the pothole terminus. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride. The delineation soil samples were handled as described above at Eurofins in Carlsbad, New Mexico. Field screening results and observations for each borehole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The release extent and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01, PH02, PH05 and PH06, collected to the west, south, east, and north of the release extent, respectively, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples collected from potholes PH03 and PH04, located within the earthen containment footprint and at depths ranging from 2 feet bgs to 8 feet bgs, indicated TPH concentrations exceeded the Closure Criteria. As such, excavation activities were appeared warranted to remediate impacted soil.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

Between January 18, 2022, and January 31, 2022, WSP oversaw excavation activities as indicated by visible staining in the release extent footprint and vertical delineated soil analytical results from preliminary and delineation sampling activities. Excavation activities were performed using a track mounted backhoe and transport vehicles. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride. The excavation was completed to depths ranging from 4 feet to 8 feet bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1- gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS12 were collected from the floor of the excavation at depths ranging from 4 feet to 8 feet bgs. Composite sidewall samples SW01 through SW06 were collected from the sidewalls at depths ranging



from ground surface to a maximum depth of 8 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico.

Laboratory analytical results for excavation floor samples FS01 through FS10 and FS12 and sidewall samples SW02, SW05, and SW06 indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for floor sample FS11 and sidewall samples SW01, SW03, and SW04 indicated TPH concentrations exceeded the Closure Criteria and as a result, additional soil was removed in the vicinity of those sample locations. Following the additional excavation, subsequent floor sample FS11A was collected at 4.25 feet bgs and sidewall samples SW07 through SW09 were collected from ground surface to 8 feet bgs. Laboratory analytical results for all final excavation floor and sidewall confirmation samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. The final excavation soil samples are presented on Figure 4. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

The final excavation extent measured approximately 2,343 square feet and a total of approximately 500 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the Gandy Marley facility located in Roswell, New Mexico. Following a review of the final laboratory analytical results for the confirmation samples, the excavation was backfilled with locally purchased caliche and contoured to match the previous Site conditions.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the October 20, 2021 release of 91 bbls of crude oil. A total of 16 bbls of crude oil was recovered via h and approximately 500 cubic yards were excavated to remediate residual TPH-impacted soil. Laboratory analytical results for the final excavation soil samples and lateral delineation pothole samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Site Closure Criteria.

Based on the excavation and delineation soil sample analytical results, no further remediation appears needed for the Site. Armstrong backfilled the excavations with material purchased locally and recontoured the Site to match pre-existing site conditions. As such, Armstrong respectfully requests NFA for Incident Number NAPP2129351684.



District 1
Page 5

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads 'Kalei Jennings'.

Kalei Jennings
Consultant, Environmental Scientist

A handwritten signature in black ink that appears to read 'Daniel R. Moir'.

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

cc: Kyle Alpers, Armstrong Energy Corporation

Attachments:

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

FIGURES

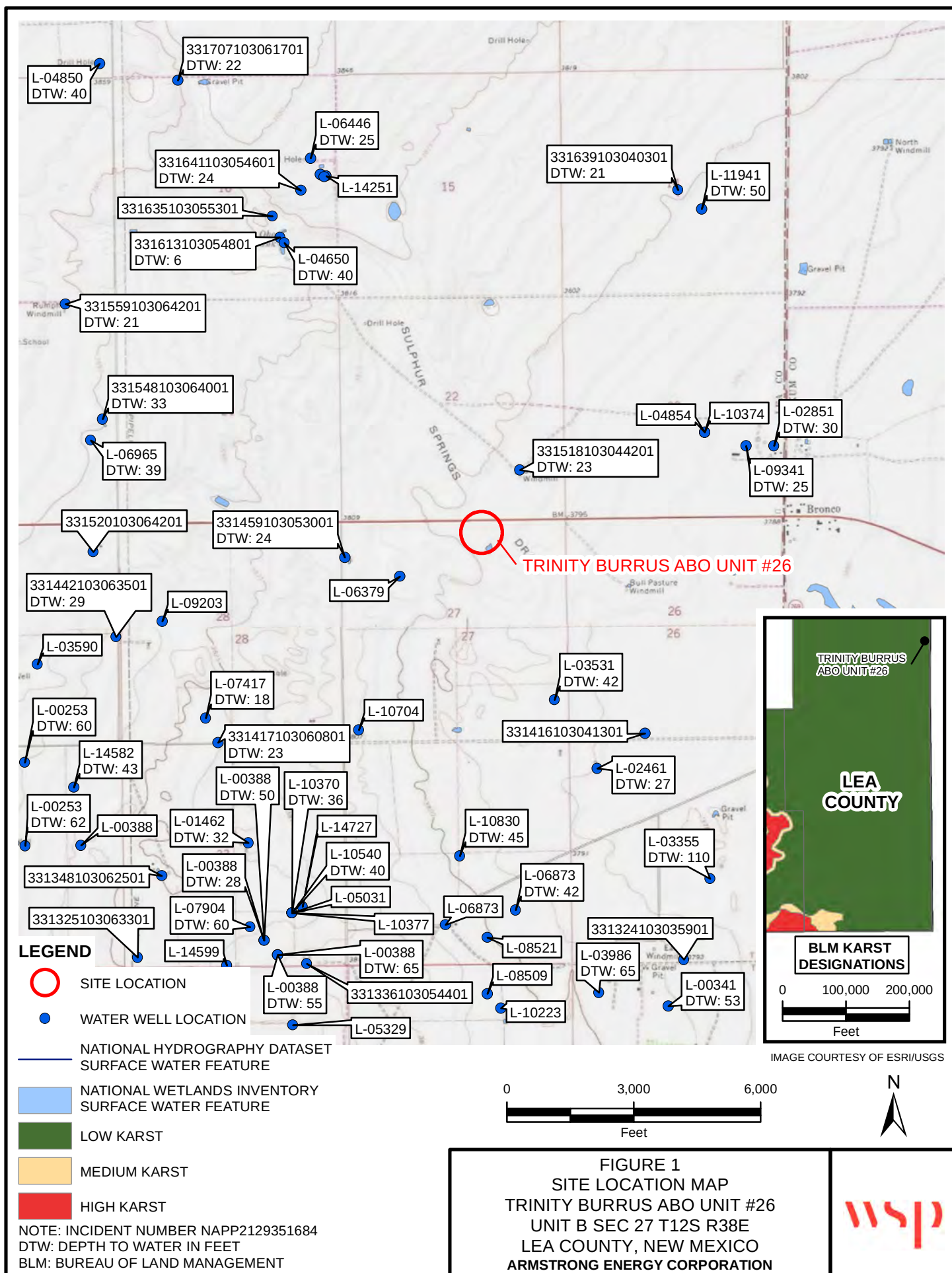
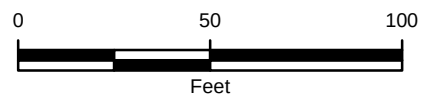




IMAGE COURTESY OF ESRI

LEGEND

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT



NOTE: INCIDENT NUMBER NAPP2129351684
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
 TRINITY BURRUS ABO UNIT #26
 UNIT B SEC 27 T12S R38E
 LEA COUNTY, NEW MEXICO
 ARMSTRONG ENERGY CORPORATION



**LEGEND**

DELINEATION SOIL SAMPLE WITH CONCENTRATIONS
PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA



DELINEATION SOIL SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA



RELEASE EXTENT

NOTE: INCIDENT NUMBER NAPP2129351684
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE
THAT WAS REMOVED

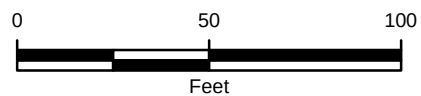


IMAGE COURTESY OF ESRI

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
TRINITY BURRUS ABO UNIT #26
UNIT B SEC 27 T12S R38E
LEA COUNTY, NEW MEXICO
ARMSTRONG ENERGY CORPORATION



**LEGEND**

- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAPP2129351684
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

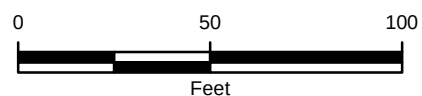


FIGURE 4
 EXCAVATION SOIL SAMPLE LOCATIONS
 TRINITY BURRUS ABO UNIT #26
 UNIT B SEC 27 T12S R38E
 LEA COUNTY, NEW MEXICO
 ARMSTRONG ENERGY CORPORATION



TABLES

Table 1

Soil Analytical Results
Trinity Burrus Abo Unit #26
Incident Number NAPP2129351684
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Preliminary Soil Samples										
SS01	10/25/2021	0.5	<0.00200	<0.00399	29,900	10,300	3,800	40,200	44,500	12.2
SS02	10/25/2021	0.5	<0.00200	<0.00400	36,200	4,000	4,320	40,200	44,600	22.5
SS03	10/25/2021	0.5	<0.00201	<0.00402	56,400	14,700	6,560	71,100	77,700	20.3
SS04	10/25/2021	0.5	<0.00198	<0.00396	56,200	16,600	6,230	72,800	79,000	389
Delineation Soil Samples										
PH01	11/15/2021	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
PH01A	11/15/2021	8	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<4.95
PH01B	11/15/2021	10	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	<4.95
PH01C	11/15/2021	11	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<5.01
PH02	11/15/2021	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	59.8
PH02A	11/15/2021	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	5.72
PH02B	11/15/2021	5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
PH03	11/15/2021	2	<0.00201	0.481	840	<50.0	840	<50.0	840	<5.00
PH03A	11/15/2021	4	<0.00200	0.0195	<49.8	<49.8	<49.8	<49.8	<49.8	7.93
PH03B	11/15/2021	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	28.2
PH04	11/15/2021	2	0.0892	118	3,450	381	3,831	<250	3,830	<4.95
PH04A	11/15/2021	6	<0.00200	0.067	<50.0	<50.0	<50.0	<50.0	<50.0	58.6
PH04B	11/15/2021	8	<0.00201	0.0151	154	<50.0	154	<50.0	154	198
PH04C	11/15/2021	11	<0.00199	<0.00398	<50.0	83.1	83.1	<50.1	83.1	<5.00

Table 1

Soil Analytical Results
Trinity Burrus Abo Unit #26
Incident Number NAPP2129351684
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH05	11/15/2021	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	32.9
PH05A	11/15/2021	6	<0.00198	0.0875	<49.8	<49.8	<49.8	<49.8	<49.8	5.94
PH05B	11/15/2021	11	0.0396	0.0396	<49.8	<49.8	<49.8	<49.8	<49.8	<4.95
PH06	11/15/2021	2	<0.00201	0.00461	<49.9	<49.9	<49.9	<49.9	<49.9	6.82
PH06A	11/15/2021	6	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	<4.96
PH06B	11/15/2021	11	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	<5.04
Excavation Floor Samples										
FS01	01/18/2022	8	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	69.1
FS02	01/18/2022	8	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	72.6
FS03	01/19/2022	8	<0.00202	0.015	96.3	<50.0	<50.0	96.3	96.3	181
FS04	01/19/2022	8	<0.00201	0.0132	87.3	<50.0	<50.0	87.3	87.3	317
FS05	01/19/2022	8	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	463
FS06	01/20/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
FS07	01/20/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	35.7
FS08	01/20/2022	4	<0.00201	0.0166	<50.0	<50.0	<50.0	<50.0	<50.0	125
FS09	01/20/2022	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	145
FS10	01/20/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.24
FS11	01/20/2022	4	<0.00198	<0.00397	124	<49.9	<49.9	124	124	28.5
FS11A	01/27/2022	4.25	<0.00202	<0.00403	97.7	<49.9	<49.9	97.7	97.7	73.6
FS12	01/20/2022	4	<0.00198	<0.00397	65.4	<50.0	<50.0	65.4	65.4	52.5

Table 1

Soil Analytical Results
Trinity Burrus Abo Unit #26
Incident Number NAPP2129351684
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Sidewall Samples										
SW01	01/18/2022	0 - 8	<0.00202	<0.00403	131	<50.0	<50.0	<50.0	131	191
SW02	01/18/2022	0 - 8	<0.00200	<0.00400	94.6	<49.9	<49.9	<49.9	94.6	151
SW03	01/18/2022	0 - 8	<0.00200	<0.00401	285	<50.0	<50.0	<50.0	285	563
SW04	01/20/2022	0 - 8	<0.00198	0.00562	139	<49.9	<49.9	139	139	405
SW05	01/20/2022	0 - 4	<0.00199	<0.00398	54.9	<50.0	<50.0	54.9	54.9	14.3
SW06	01/20/2022	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	205
SW07	01/31/2022	0 - 8	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	58.1
SW08	01/31/2022	0 - 8	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	76.9
SW09	01/31/2022	0 - 8	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	43.7

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - 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

Text	impacted soil was excavated
------	-----------------------------

ATTACHMENT 1: REFERENCED WELL RECORDS



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) Data Category: Site Information Geographic Area: United States

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- [Full News](#) 

USGS 331518103044201 12S.38E.22.44114

Available data for this site

Well Site

DESCRIPTION:

Latitude 33°15'36", Longitude 103°04'45" NAD27
Lea County, New Mexico , Hydrologic Unit 12080006
Well depth: not determined.
Land surface altitude: 3,801.10 feet above NGVD29.
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-02-09	1996-03-01	8
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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

[Questions about sites/data?](#)

[Feedback on this web site](#)

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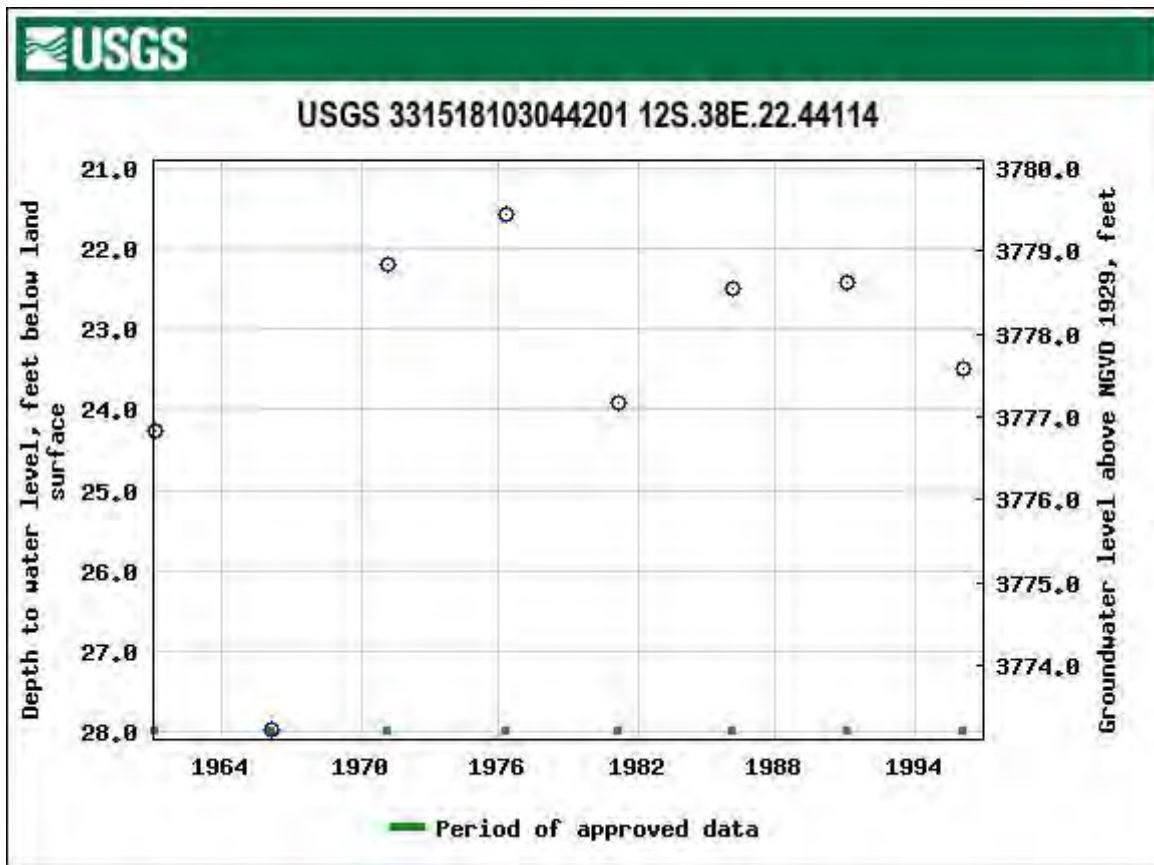
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National Water Information System: Web Interface

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- [Full News](#) 

USGS 372248102400700 SC03104702AAA1

Available data for this site SUMMARY OF ALL AVAILABLE DATA

Well Site

DESCRIPTION:

Latitude 37°22'48", Longitude 102°40'07" NAD27
Baca County, Colorado , Hydrologic Unit 11040005
Well depth: 100 feet
Land surface altitude: 4,476.00 feet above NGVD29.
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS Colorado Water Science Center
Email questions about this site to [Colorado Water Science Center Water-Data Inquiries](#)

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New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: L 02851

Subbasin: L

Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 3

Cause/Case: -

Owner: ROBERT K FIELD

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
				1	2		To				
	490404	72121	1955-05-02	PMT	LOG	L 02851	T			3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
L 02851		Shallow	4	2	4	23 12S 38E	680705	3681951*	

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

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

10/25/21 7:33 AM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
L	02851	4	2	4	23	12S	38E	680705	3681951*

Driller License: 134 **Driller Company:** STONE DRILLING CO.

Driller Name: STONE, JOHN C.

Drill Start Date: 05/13/1955 **Drill Finish Date:** 05/14/1955 **Plug Date:**

Log File Date: 06/09/1955 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 6.50 **Depth Well:** 61 feet **Depth Water:** 30 feet

Water Bearing Stratifications:	Top	Bottom	Description
	25	30	Sandstone/Gravel/Conglomerate
	35	61	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	32	61

*UTM location was derived from PLSS - see Help

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

10/25/21 7:33 AM

POINT OF DIVERSION SUMMARY

ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

Armstrong Energy Corporation	Trinity Burrus Abo Unit #26 Lea County, New Mexico	NAPP2129351684
------------------------------	---	----------------

Photo No.	Date	
1	October 25, 2021	
Photo of release extent taken during initial site assessment.		 A photograph showing a release of dark, viscous liquid from a wellhead. The liquid is flowing down a gravel-covered slope, creating a dark, irregular pool. Several white pipes run parallel to the release. In the background, there are utility poles and a clear blue sky.

Photo No.	Date	
2	October 25, 2021	
Photo of release extent taken during the initial site assessment.		 A photograph showing a release of dark, viscous liquid from a storage tank. The liquid is flowing down a gravel-covered slope, creating a dark, irregular pool. The tank is white with a blue base. A metal ladder is visible on the right side of the tank.



PHOTOGRAPHIC LOG		
Armstrong Energy Corporation	Trinity Burrus Abo Unit #26 Lea County, New Mexico	NAPP2129351684

Photo No.	Date	
3	January 31, 2022	
Photo of excavation extent.		

Photo No.	Date	
4	January 31, 2022	
Photo of excavation extent.		



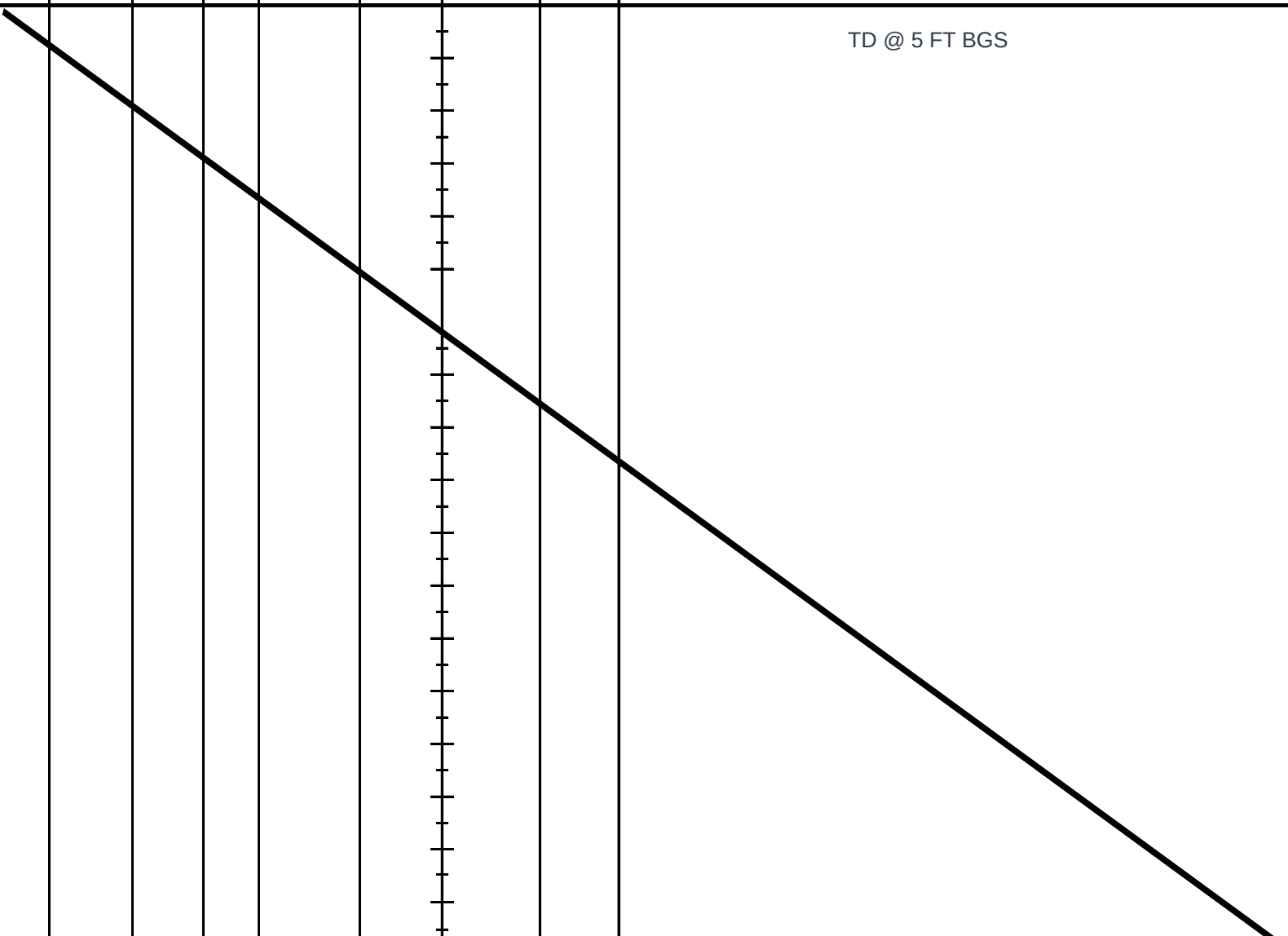
PHOTOGRAPHIC LOG		
Armstrong Energy Corporation	Trinity Burrus Abo Unit #26 Lea County, New Mexico	NAPP2129351684

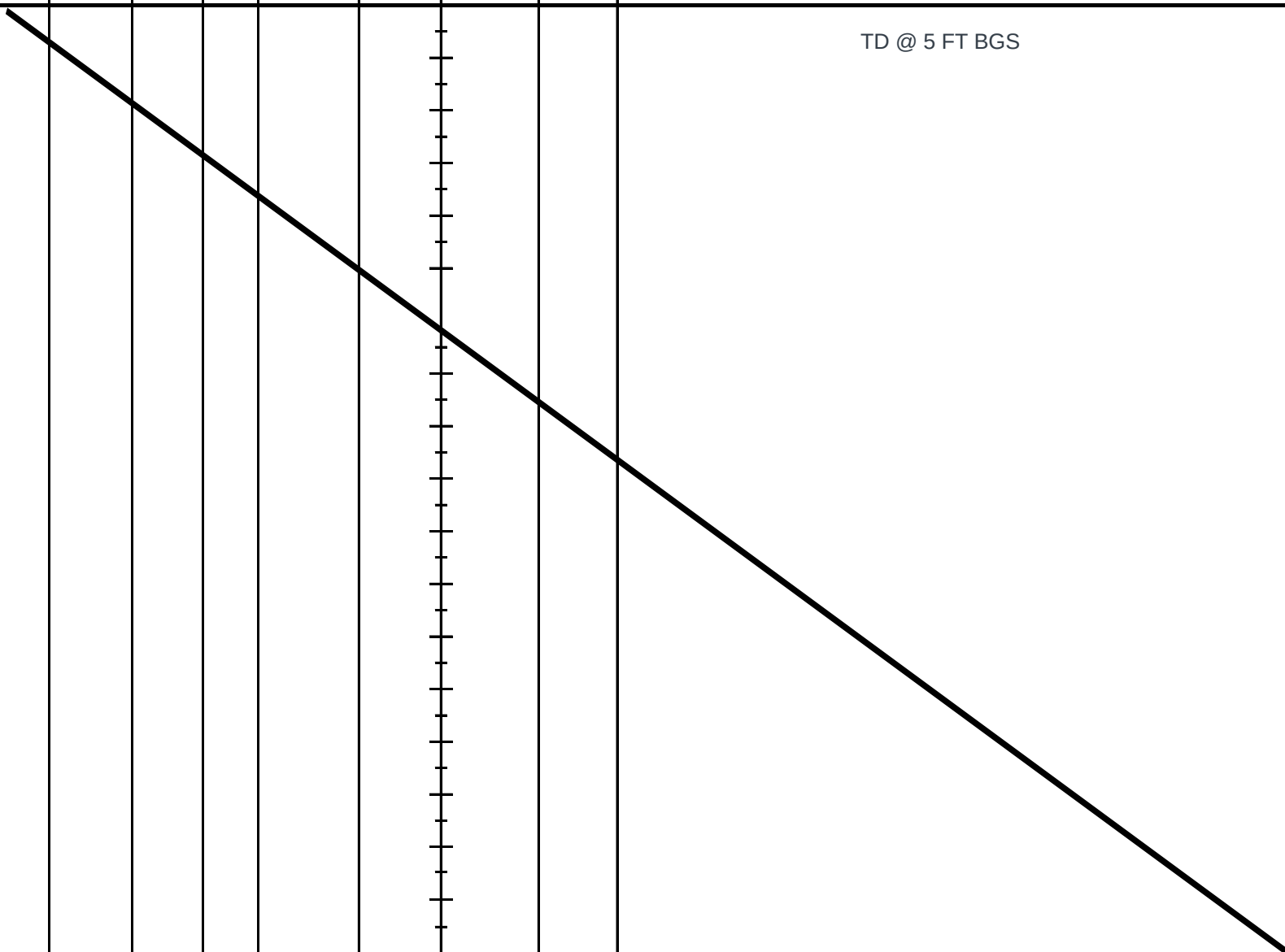
Photo No.	Date	
5	January 31, 2022	
Photo of excavation extent backfilled.		

Photo No.	Date	
6	January 31, 2022	
Photo of excavation extent backfilled.		

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOGS

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH01		Date: 11/15/2021	
								Site Name: Trinity Burrus Abo Unit #26			
								RP or Incident Number: NAPP2129351684			
								WSP Job Number: 31403471.002 Task 2			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method:	
Lat/Long: 33.2560768, -103.082695				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 11 feet	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no; SAA-same as above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
						1					
D	<168	5.7	N	PH01	2	2	SP-SC	SAND, DARK BROWN, COARSE GRAIN, SOME CALICHE GRAVEL, POORLY SORTED, NO STAIN SLIGHT H/C ODOR			
						3					
D	<168	5.4	N	PH01A	4	4	CCHE	CALICHE, WHITE, ABUNDANT COARSE GRAIN SAND, TRACE SILT, POORLY SORTED, NO STAIN SLIGHT H/C ODOR			
						5					
D	<157	2.1	N	PH01B	6	6	CCHE	SAA			
						7					
D	<157	2.9	N	PH01C	8	8	CCHE	SAA, NO ODOR			
						9					
D	<157	3.0	N	PH01D	10	10	CCHE	SAA			
D	<157	3.5	N	PH01E	11	11	CCHE	SAA			
								TD @ 11 FT BGS			

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH02		Date: 11/15/2021	
								Site Name: Trinity Burrus Abo Unit #26			
								RP or Incident Number: NAPP2129351684			
								WSP Job Number: 31403471.002 Task 2			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method:	
Lat/Long: 33.2560768, -103.082695				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 5 feet	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no; SAA-same as above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
						1					
D	<168	0	N	PH02	2	2	SP-SM	SAND, DARK BROWN, ABUNDANT CALICHE GRAVEL, MED-COARSE GRAIN, POORLY SORTED, NO STAIN, SLIGHT H/C ODOR			
						3					
D	<168	4.3	N	PH02A	4	4	SP-SC	SAA, CALICHE GRAVEL-COBBLE			
D	<168	2.2	N	PH02B	5	5	CCHE	CALICHE, TAN-LIGHT BROWN, ABUNDANT COARSE GRAIN SAND, POORLY GRADED, NO STAIN, NO ODOR			
								TD @ 5 FT BGS			
											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH03		Date: 11/15/2021	
								Site Name: Trinity Burrus Abo Unit #26			
								RP or Incident Number: NAPP2129351684			
								WSP Job Number: 31403471.002 Task 2			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method:	
Lat/Long: 33.2560768, -103.082695				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 5 feet	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no; SAA-same as above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
						1					
M	<168	978	Y	PH03	2	2	SP-SC	SAND, DARK BROWN, SOME CALICHE GRAVEL, MED-COARSE GRAIN, POORLY SORTED, NO STAIN, STRONG H/C ODOR			
						3					
D	<168	14.7	N	PH03A	4	4	SP-SC	SAND, TAN-BROWN, MED-CAORSE GRAIN, POORLY SORTED NO STAIN, TRACE H/C ODOR			
D	<168	13.2	N	PH03B	5	5	SP-SC	SAA, NO ODOR			
								TD @ 5 FT BGS			
											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH04		Date: 11/15/2021	
								Site Name: Trinity Burrus Abo Unit #26			
								RP or Incident Number: NAPP2129351684			
								WSP Job Number: 31403471.002 Task 2			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method:	
Lat/Long: 33.2560768, -103.082695				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 11 feet	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no; SAA-same as above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
						1					
M	<168	1255	Y	PH04	2	2	SP-SC	SAND, DARK BROWN, SOME SILT/CLAY, MEDIUM GRAIN, POORLY SORTED, H/C STAINING, STRONG H/C ODOR			
						3					
D	<168	160.0	N	PH04A	4	4	SP-SC	SAND, BROWN, SOME SILT AND CALICHE GRAVEL, COARSE GRAIN, POORLY SORTED, NO STAIN H/C ODOR			
						5					
D	<168	170.2	N	PH04B	6	6	SP-SC	SAA, LESS CALICHE GRAVEL			
						7					
D	201.6	9.8	N	PH04C	8	8	SP-SC	SAND, TAN, ABUNDANT CALICHE GRAVEL, COARSE GRAIN, POORLY SORTED, NO STAIN, TRACE H/C ODOR			
						9					
D	313.6	7.5	N	PH04D	10	10	SP-SC	SAA, LESS ODOR			
D	<168	3.4	N	PH04E	11	11	SP-SC	SAA			
								TD @ 11 FT BGS			

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH05		Date: 11/15/2021	
								Site Name: Trinity Burrus Abo Unit #26			
								RP or Incident Number: NAPP2129351684			
								WSP Job Number: 31403471.002 Task 2			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method:	
Lat/Long: 33.2560768, -103.082695				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 11 feet	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no; SAA-same as above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
						1					
D	<168	6	Y	PH05	2	2	SP-SM	SAND, DARK BROWN, SOME SILT/CLAY, FINE-MEDIUM GRAIN, POORLY SORTED, NO STAIN, SLIGHT H/C ODOR			
						3					
D	<168	3.6	N	PH05A	4	4	SP-SC	SAND, BROWN, SOME SILT AND CALICHE GRAVEL, MED-COARSE GRAIN, POORLY SORTED, NO STAIN, SLIGHT H/C ODOR			
						5					
D	<168	3.5	N	PH05B	6	6	CCHE	CALICHE, TAN, ABUNDANT SAND, COARSE GRAIN, POORLY SORTED, NO STAIN, SLIGHT H/C ODOR			
						7					
D	<168	3.6	N	PH05C	8	8	CCHE	SAA			
						9					
D	<168	2.9	N	PH05D	10	10	CCHE	SAA, NO ODOR			
D	<168	2.6	N	PH05E	11	11	CCHE	SAA			
								TD @ 11 FT BGS			

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH06		Date: 11/15/2021	
								Site Name: Trinity Burrus Abo Unit #26			
								RP or Incident Number: NAPP2129351684			
								WSP Job Number: 31403471.002 Task 2			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: PB		Method:	
Lat/Long: 33.2560768, -103.082695				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 11 feet	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no; SAA-same as above											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
						1					
D	<157	3.2	Y	PH06	2	2	SP-SM	SAND, DARK BROWN, SOME SILT/CLAY, FINE-MEDIUM GRAIN, POORLY SORTED, NO STAIN, NO ODOR			
						3					
D	<157	3.4	N	PH06A	4	4	SP-SC	SAND, BROWN, SOME CLAY AND CALICHE GRAVEL, MED-COARSE GRAIN, POORLY SORTED, NO STAIN, NO ODOR			
						5					
D	<157	4.0	N	PH06B	6	6	SP-SC	SAA			
						7					
D	<157	3.4	N	PH06C	8	8	SP-SC	SAND, TAN-BROWN, ABUNDANT CALICHE GRAVEL, MED-COARSE GRAIN, POORLY SORTED, NO STAIN, NO ODOR			
						9					
D	<157	3.4	N	PH06D	10	10	SP-SC	SAA			
D	<157	2.2	N	PH06E	11	11	SP-SC	SAA			
								TD @ 11 FT BGS			

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1483-1

Laboratory Sample Delivery Group: Armstrong Energy
Client Project/Site: Trinity Burrus Unit #26

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
11/2/2021 3:27:53 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: Trinity Burrus Unit #26

Laboratory Job ID: 890-1483-1
SDG: Armstrong Energy

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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
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: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Job ID: 890-1483-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1483-1**

Receipt

The samples were received on 10/26/2021 8:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS04 (890-1483-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-1483-1), SS02 (890-1483-2) and SS03 (890-1483-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-10739 and analytical batch 880-11104 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Client Sample ID: SS01

Lab Sample ID: 890-1483-1

Date Collected: 10/25/21 13:01

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 06:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 06:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 06:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/27/21 10:31	10/28/21 06:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 06:58	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/27/21 10:31	10/28/21 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	10/27/21 10:31	10/28/21 06:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/27/21 10:31	10/28/21 06:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/01/21 13:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44500		499	mg/Kg			11/01/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	10300		499	mg/Kg		10/29/21 15:20	10/31/21 03:01	10
Diesel Range Organics (Over C10-C28)	29900		499	mg/Kg		10/29/21 15:20	10/31/21 03:01	10
Oil Range Organics (Over C28-C36)	3800		499	mg/Kg		10/29/21 15:20	10/31/21 03:01	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	576	S1+	70 - 130	10/29/21 15:20	10/31/21 03:01	10
o-Terphenyl	421	S1+	70 - 130	10/29/21 15:20	10/31/21 03:01	10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		5.01	mg/Kg			11/01/21 15:24	1

Client Sample ID: SS02

Lab Sample ID: 890-1483-2

Date Collected: 10/25/21 13:13

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 07:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 07:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 07:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/27/21 10:31	10/28/21 07:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 07:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/27/21 10:31	10/28/21 07:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Client Sample ID: SS02

Lab Sample ID: 890-1483-2

Date Collected: 10/25/21 13:13

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/27/21 10:31	10/28/21 07:19	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/27/21 10:31	10/28/21 07:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/01/21 13:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<500	U	500	mg/Kg			11/01/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4000		500	mg/Kg		10/29/21 15:20	10/31/21 03:22	10
Diesel Range Organics (Over C10-C28)	36200		500	mg/Kg		10/29/21 15:20	10/31/21 03:22	10
Oil Range Organics (Over C28-C36)	4320		500	mg/Kg		10/29/21 15:20	10/31/21 03:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	615	S1+	70 - 130	10/29/21 15:20	10/31/21 03:22	10
o-Terphenyl	454	S1+	70 - 130	10/29/21 15:20	10/31/21 03:22	10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		4.95	mg/Kg			11/01/21 15:30	1

Client Sample ID: SS03

Lab Sample ID: 890-1483-3

Date Collected: 10/25/21 13:16

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/27/21 10:31	10/28/21 07:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/27/21 10:31	10/28/21 07:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/27/21 10:31	10/28/21 07:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/27/21 10:31	10/28/21 07:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/27/21 10:31	10/28/21 07:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/27/21 10:31	10/28/21 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/27/21 10:31	10/28/21 07:39	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/27/21 10:31	10/28/21 07:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/01/21 13:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Client Sample ID: SS03

Lab Sample ID: 890-1483-3

Date Collected: 10/25/21 13:16

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77700		498	mg/Kg			11/01/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	14700		498	mg/Kg		10/29/21 15:20	10/31/21 03:44	10
Diesel Range Organics (Over C10-C28)	56400		498	mg/Kg		10/29/21 15:20	10/31/21 03:44	10
Oil Range Organics (Over C28-C36)	6560		498	mg/Kg		10/29/21 15:20	10/31/21 03:44	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	950	S1+	70 - 130			10/29/21 15:20	10/31/21 03:44	10
o-Terphenyl	780	S1+	70 - 130			10/29/21 15:20	10/31/21 03:44	10

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		5.04	mg/Kg			11/01/21 15:51	1

Client Sample ID: SS04

Lab Sample ID: 890-1483-4

Date Collected: 10/25/21 13:18

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/27/21 10:31	10/28/21 07:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/27/21 10:31	10/28/21 07:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/27/21 10:31	10/28/21 07:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/27/21 10:31	10/28/21 07:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/27/21 10:31	10/28/21 07:59	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/27/21 10:31	10/28/21 07:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			10/27/21 10:31	10/28/21 07:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130			10/27/21 10:31	10/28/21 07:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/01/21 13:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79000		998	mg/Kg			11/01/21 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16600		998	mg/Kg		10/29/21 15:20	10/31/21 13:13	20
Diesel Range Organics (Over C10-C28)	56200		998	mg/Kg		10/29/21 15:20	10/31/21 13:13	20

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Client Sample ID: SS04

Lab Sample ID: 890-1483-4

Date Collected: 10/25/21 13:18

Matrix: Solid

Date Received: 10/26/21 08:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	6230		998	mg/Kg		10/29/21 15:20	10/31/21 13:13	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	900	S1+	70 - 130			10/29/21 15:20	10/31/21 13:13	20
o-Terphenyl	744	S1+	70 - 130			10/29/21 15:20	10/31/21 13:13	20

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	389		4.99	mg/Kg			11/01/21 15:58	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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)
880-7558-A-1-A MS	Matrix Spike	124	105
880-7558-A-1-B MSD	Matrix Spike Duplicate	129	96
890-1483-1	SS01	108	96
890-1483-2	SS02	113	92
890-1483-3	SS03	121	88
890-1483-4	SS04	131 S1+	79
LCS 880-10613/1-A	Lab Control Sample	104	105
LCSD 880-10613/2-A	Lab Control Sample Dup	112	98
MB 880-10434/5-A	Method Blank	110	96
MB 880-10613/5-A	Method Blank	107	96
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)
890-1483-1	SS01	576 S1+	421 S1+
890-1483-2	SS02	615 S1+	454 S1+
890-1483-3	SS03	950 S1+	780 S1+
890-1483-4	SS04	900 S1+	744 S1+
890-1484-A-1-H MS	Matrix Spike	93	87
890-1484-A-1-I MSD	Matrix Spike Duplicate	92	87
LCS 880-10979/2-A	Lab Control Sample	89	89
LCSD 880-10979/3-A	Lab Control Sample Dup	96	95
MB 880-10979/1-A	Method Blank	114	126
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10434/5-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10434

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/25/21 13:59	10/27/21 13:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/25/21 13:59	10/27/21 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	10/25/21 13:59	10/27/21 13:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/25/21 13:59	10/27/21 13:16	1

Lab Sample ID: MB 880-10613/5-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10613

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 00:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 00:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 00:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/27/21 10:31	10/28/21 00:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/27/21 10:31	10/28/21 00:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/27/21 10:31	10/28/21 00:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/27/21 10:31	10/28/21 00:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130	10/27/21 10:31	10/28/21 00:08	1

Lab Sample ID: LCS 880-10613/1-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08779		mg/Kg		88	70 - 130
Toluene	0.100	0.08052		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08317		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1705		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08781		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-10613/2-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08982		mg/Kg		90	70 - 130	2	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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

Lab Sample ID: LCSD 880-10613/2-A

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08397		mg/Kg		84	70 - 130	4	35
Ethylbenzene	0.100	0.08795		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1818		mg/Kg		91	70 - 130	6	35
o-Xylene	0.100	0.09320		mg/Kg		93	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-7558-A-1-A MS

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.06741	F1	mg/Kg		67	70 - 130		
Toluene	<0.00201	U F1	0.101	0.06377	F1	mg/Kg		63	70 - 130		
Ethylbenzene	<0.00201	U F1	0.101	0.06787	F1	mg/Kg		67	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1416		mg/Kg		70	70 - 130		
o-Xylene	<0.00201	U	0.101	0.07228		mg/Kg		71	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-7558-A-1-B MSD

Matrix: Solid

Analysis Batch: 10673

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.100	0.05524	F1	mg/Kg		55	70 - 130	20	35
Toluene	<0.00201	U F1	0.100	0.05363	F1	mg/Kg		53	70 - 130	17	35
Ethylbenzene	<0.00201	U F1	0.100	0.06418	F1	mg/Kg		63	70 - 130	6	35
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1367	F1	mg/Kg		68	70 - 130	4	35
o-Xylene	<0.00201	U	0.100	0.07125		mg/Kg		71	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-10979/1-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10979

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/29/21 15:20	10/30/21 20:20	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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

Lab Sample ID: MB 880-10979/1-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10979

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/29/21 15:20	10/30/21 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/29/21 15:20	10/30/21 20:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			10/29/21 15:20	10/30/21 20:20	1
o-Terphenyl	126		70 - 130			10/29/21 15:20	10/30/21 20:20	1

Lab Sample ID: LCS 880-10979/2-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1089		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1150		mg/Kg		115	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	89		70 - 130				
o-Terphenyl	89		70 - 130				

Lab Sample ID: LCSD 880-10979/3-A

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10979

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1075		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1162		mg/Kg		116	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 890-1484-A-1-H MS

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	854.8		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	948.4		mg/Kg		92	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	87		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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

Lab Sample ID: 890-1484-A-1-I MSD

Matrix: Solid

Analysis Batch: 10998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	844.5		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	956.9		mg/Kg		92	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	87		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10739/1-A

Matrix: Solid

Analysis Batch: 11104

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/01/21 14:07	1

Lab Sample ID: LCS 880-10739/2-A

Matrix: Solid

Analysis Batch: 11104

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-10739/3-A

Matrix: Solid

Analysis Batch: 11104

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	242.0		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-1484-A-4-F MS

Matrix: Solid

Analysis Batch: 11104

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	428	F1	251	650.9	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-1484-A-4-G MSD

Matrix: Solid

Analysis Batch: 11104

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	428	F1	251	656.0		mg/Kg		91	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

GC VOA

Prep Batch: 10434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10434/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 10613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Total/NA	Solid	5035	
890-1483-2	SS02	Total/NA	Solid	5035	
890-1483-3	SS03	Total/NA	Solid	5035	
890-1483-4	SS04	Total/NA	Solid	5035	
MB 880-10613/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10613/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10613/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7558-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-7558-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 10673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Total/NA	Solid	8021B	10613
890-1483-2	SS02	Total/NA	Solid	8021B	10613
890-1483-3	SS03	Total/NA	Solid	8021B	10613
890-1483-4	SS04	Total/NA	Solid	8021B	10613
MB 880-10434/5-A	Method Blank	Total/NA	Solid	8021B	10434
MB 880-10613/5-A	Method Blank	Total/NA	Solid	8021B	10613
LCS 880-10613/1-A	Lab Control Sample	Total/NA	Solid	8021B	10613
LCSD 880-10613/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10613
880-7558-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	10613
880-7558-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10613

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Total/NA	Solid	Total BTEX	
890-1483-2	SS02	Total/NA	Solid	Total BTEX	
890-1483-3	SS03	Total/NA	Solid	Total BTEX	
890-1483-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 10979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Total/NA	Solid	8015NM Prep	
890-1483-2	SS02	Total/NA	Solid	8015NM Prep	
890-1483-3	SS03	Total/NA	Solid	8015NM Prep	
890-1483-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-10979/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10979/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10979/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1484-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1484-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Total/NA	Solid	8015B NM	10979

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

GC Semi VOA (Continued)

Analysis Batch: 10998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-2	SS02	Total/NA	Solid	8015B NM	10979
890-1483-3	SS03	Total/NA	Solid	8015B NM	10979
890-1483-4	SS04	Total/NA	Solid	8015B NM	10979
MB 880-10979/1-A	Method Blank	Total/NA	Solid	8015B NM	10979
LCS 880-10979/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10979
LCSD 880-10979/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10979
890-1484-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	10979
890-1484-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10979

Analysis Batch: 11118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Total/NA	Solid	8015 NM	
890-1483-2	SS02	Total/NA	Solid	8015 NM	
890-1483-3	SS03	Total/NA	Solid	8015 NM	
890-1483-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 10739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Soluble	Solid	DI Leach	
890-1483-2	SS02	Soluble	Solid	DI Leach	
890-1483-3	SS03	Soluble	Solid	DI Leach	
890-1483-4	SS04	Soluble	Solid	DI Leach	
MB 880-10739/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10739/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10739/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1484-A-4-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1484-A-4-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1483-1	SS01	Soluble	Solid	300.0	10739
890-1483-2	SS02	Soluble	Solid	300.0	10739
890-1483-3	SS03	Soluble	Solid	300.0	10739
890-1483-4	SS04	Soluble	Solid	300.0	10739
MB 880-10739/1-A	Method Blank	Soluble	Solid	300.0	10739
LCS 880-10739/2-A	Lab Control Sample	Soluble	Solid	300.0	10739
LCSD 880-10739/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10739
890-1484-A-4-F MS	Matrix Spike	Soluble	Solid	300.0	10739
890-1484-A-4-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10739

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Client Sample ID: SS01

Lab Sample ID: 890-1483-1

Date Collected: 10/25/21 13:01

Matrix: Solid

Date Received: 10/26/21 08:26

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	10613	10/27/21 10:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/28/21 06:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10979	10/29/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		10			10998	10/31/21 03:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	10739	10/27/21 12:26	SC	XEN MID
Soluble	Analysis	300.0		1			11104	11/01/21 15:24	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1483-2

Date Collected: 10/25/21 13:13

Matrix: Solid

Date Received: 10/26/21 08:26

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	10613	10/27/21 10:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/28/21 07:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10979	10/29/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		10			10998	10/31/21 03:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10739	10/27/21 12:26	SC	XEN MID
Soluble	Analysis	300.0		1			11104	11/01/21 15:30	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1483-3

Date Collected: 10/25/21 13:16

Matrix: Solid

Date Received: 10/26/21 08:26

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	10613	10/27/21 10:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/28/21 07:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10979	10/29/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		10			10998	10/31/21 03:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10739	10/27/21 12:26	SC	XEN MID
Soluble	Analysis	300.0		1			11104	11/01/21 15:51	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1483-4

Date Collected: 10/25/21 13:18

Matrix: Solid

Date Received: 10/26/21 08:26

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	10613	10/27/21 10:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10673	10/28/21 07:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:53	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Client Sample ID: SS04

Lab Sample ID: 890-1483-4

Date Collected: 10/25/21 13:18

Matrix: Solid

Date Received: 10/26/21 08:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10979	10/29/21 15:20	DM	XEN MID
Total/NA	Analysis	8015B NM		20			10998	10/31/21 13:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10739	10/27/21 12:26	SC	XEN MID
Soluble	Analysis	300.0		1			11104	11/01/21 15:58	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: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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: Trinity Burrus Unit #26

Job ID: 890-1483-1
SDG: Armstrong Energy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1483-1	SS01	Solid	10/25/21 13:01	10/26/21 08:26	0.5
890-1483-2	SS02	Solid	10/25/21 13:13	10/26/21 08:26	0.5
890-1483-3	SS03	Solid	10/25/21 13:16	10/26/21 08:26	0.5
890-1483-4	SS04	Solid	10/25/21 13:18	10/26/21 08:26	0.5

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Bldg 1, Unit 222	Address:	3300 North A Street Bldg 1, Unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	kalei.jennings@wsp.com, payton.benner@wsp.com

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

Project Name:	Trinity Burrus Unit #26	Turn Around	
Project Number:	Armstrong Energy	Routine ☒ Rush:	
P.O. Number:		Due Date:	
Sampler's Name:	Payton Benner		

SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
	Temperature (°C):	3.6 / 3.4	Thermometer ID	T-NM-001
	Received Inact:	☒ Yes ☐ No	Correction Factor:	-6.2
	Cooler Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:	

Sample Custody Seals:	Yes ☐ No ☒ N/A		
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Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
SS01	S	10/25/2021	13:01	0.5'	1	X	X	X		
SS02	S	10/25/2021	13:13	0.5'	1	X	X	X		
SS03	S	10/25/2021	13:16	0.5'	1	X	X	X		
SS04	S	10/25/2021	13:18	0.5'	1	X	X	X		
<i>[Handwritten signature across the table]</i>										

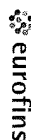
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/26/21 8:14	<i>[Signature]</i>	<i>[Signature]</i>	10/26/21 8:28
3			4		
5			6		

Month	Number of Samples
Jan	1
Feb	2
Mar	3
Apr	4
May	5
Jun	6
Jul	7
Aug	8
Sep	9
Oct	10
Nov	11
Dec	12

Chain of Custody Record



Environment Testing America

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

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1483-1

SDG Number: Armstrong Energy

Login Number: 1483

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: 890-1483-1

SDG Number: Armstrong Energy

Login Number: 1483

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 10/27/21 11:09 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	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1597-1

Laboratory Sample Delivery Group: 31403471.002

Client Project/Site: Trinity Burrus Abo Unit #26

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
12/2/2021 4:18:12 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: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1597-1
SDG: 31403471.002

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	21
QC Sample Results	23
QC Association Summary	29
Lab Chronicle	35
Certification Summary	42
Method Summary	43
Sample Summary	44
Chain of Custody	45
Receipt Checklists	47

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Job ID: 890-1597-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1597-1****Receipt**

The samples were received on 11/18/2021 11:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-12682 and 880-12682 and analytical batch 880-12718 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 samples were outside control limits: PH05B (890-1597-17) and PH06B (890-1597-20). 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 880-12786 and analytical batch 880-12909 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-12786 and analytical batch 880-12909 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH04 (890-1597-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01B (890-1597-3), PH01C (890-1597-4), (LCSD 880-12784/3-A) and (MB 880-12784/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-12803 and 880-12803 and analytical batch 880-13320 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH01

Lab Sample ID: 890-1597-1

Date Collected: 11/15/21 10:00

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:06	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:06	1
Ethylbenzene	<0.00199	U F1 F2	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:06	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398	mg/Kg		11/19/21 10:30	11/20/21 04:06	1
o-Xylene	<0.00199	U F1 F2	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:06	1
Xylenes, Total	<0.00398	U F1 F2	0.00398	mg/Kg		11/19/21 10:30	11/20/21 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/19/21 10:30	11/20/21 04:06	1
1,4-Difluorobenzene (Surr)	85		70 - 130	11/19/21 10:30	11/20/21 04:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 09:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 09:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	11/19/21 14:47	11/20/21 09:21	1
o-Terphenyl	113		70 - 130	11/19/21 14:47	11/20/21 09:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			11/30/21 23:16	1

Client Sample ID: PH01A

Lab Sample ID: 890-1597-2

Date Collected: 11/15/21 10:05

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 04:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 04:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/19/21 10:30	11/20/21 04:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH01A

Lab Sample ID: 890-1597-2

Date Collected: 11/15/21 10:05

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	11/19/21 10:30	11/20/21 04:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 10:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 10:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 10:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			11/19/21 14:47	11/20/21 10:37	1
o-Terphenyl	111		70 - 130			11/19/21 14:47	11/20/21 10:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			11/30/21 23:28	1

Client Sample ID: PH01B

Lab Sample ID: 890-1597-3

Date Collected: 11/15/21 10:10

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 10

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 05:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 05:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 05:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/19/21 10:30	11/20/21 05:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 05:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/19/21 10:30	11/20/21 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/19/21 10:30	11/20/21 05:01	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/19/21 10:30	11/20/21 05:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH01B

Lab Sample ID: 890-1597-3

Date Collected: 11/15/21 10:10

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			11/19/21 14:47	11/20/21 11:00	1
o-Terphenyl	134	S1+	70 - 130			11/19/21 14:47	11/20/21 11:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			12/01/21 00:03	1

Client Sample ID: PH01C

Lab Sample ID: 890-1597-4

Date Collected: 11/15/21 10:15

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 05:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 05:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 05:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 05:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 05:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 05:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			11/19/21 10:30	11/20/21 05:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130			11/19/21 10:30	11/20/21 05:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			11/19/21 14:47	11/20/21 11:21	1
o-Terphenyl	139	S1+	70 - 130			11/19/21 14:47	11/20/21 11:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH01C

Lab Sample ID: 890-1597-4

Date Collected: 11/15/21 10:15

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01	mg/Kg			12/01/21 00:15	1

Client Sample ID: PH02

Lab Sample ID: 890-1597-5

Date Collected: 11/15/21 10:30

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 05:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 05:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 05:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/19/21 10:30	11/20/21 05:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 05:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/19/21 10:30	11/20/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			11/19/21 10:30	11/20/21 05:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130			11/19/21 10:30	11/20/21 05:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			11/19/21 14:47	11/20/21 11:43	1
o-Terphenyl	117		70 - 130			11/19/21 14:47	11/20/21 11:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.8		4.97	mg/Kg			12/01/21 00:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH02A

Lab Sample ID: 890-1597-6

Date Collected: 11/15/21 10:35

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 06:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 06:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 06:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 06:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 06:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/19/21 10:30	11/20/21 06:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/19/21 10:30	11/20/21 06:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/21 14:47	11/20/21 12:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/21 14:47	11/20/21 12:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/21 14:47	11/20/21 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	11/19/21 14:47	11/20/21 12:04	1
o-Terphenyl	126		70 - 130	11/19/21 14:47	11/20/21 12:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.72		4.99	mg/Kg			12/01/21 00:38	1

Client Sample ID: PH02B

Lab Sample ID: 890-1597-7

Date Collected: 11/15/21 10:40

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 06:46	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 06:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 06:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/19/21 10:30	11/20/21 06:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 06:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/19/21 10:30	11/20/21 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/19/21 10:30	11/20/21 06:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH02B

Lab Sample ID: 890-1597-7

Date Collected: 11/15/21 10:40

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	11/19/21 10:30	11/20/21 06:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			11/19/21 14:47	11/20/21 12:25	1
o-Terphenyl	104		70 - 130			11/19/21 14:47	11/20/21 12:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/01/21 00:50	1

Client Sample ID: PH03

Lab Sample ID: 890-1597-8

Date Collected: 11/15/21 10:50

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 07:14	1
Toluene	0.0849		0.00201	mg/Kg		11/19/21 10:30	11/20/21 07:14	1
Ethylbenzene	0.124		0.00201	mg/Kg		11/19/21 10:30	11/20/21 07:14	1
m-Xylene & p-Xylene	0.258		0.00402	mg/Kg		11/19/21 10:30	11/20/21 07:14	1
o-Xylene	0.0141		0.00201	mg/Kg		11/19/21 10:30	11/20/21 07:14	1
Xylenes, Total	0.272		0.00402	mg/Kg		11/19/21 10:30	11/20/21 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	218	S1+	70 - 130	11/19/21 10:30	11/20/21 07:14	1
1,4-Difluorobenzene (Surr)	85		70 - 130	11/19/21 10:30	11/20/21 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.481		0.00402	mg/Kg			11/30/21 11:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	840		50.0	mg/Kg			11/22/21 13:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH03

Lab Sample ID: 890-1597-8

Date Collected: 11/15/21 10:50

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 12:47	1
Diesel Range Organics (Over C10-C28)	840		50.0	mg/Kg		11/19/21 14:47	11/20/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			11/19/21 14:47	11/20/21 12:47	1
o-Terphenyl	108		70 - 130			11/19/21 14:47	11/20/21 12:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U F1	5.00	mg/Kg			12/01/21 01:01	1

Client Sample ID: PH03A

Lab Sample ID: 890-1597-9

Date Collected: 11/15/21 10:55

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 07:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 07:41	1
Ethylbenzene	0.0195		0.00200	mg/Kg		11/19/21 10:30	11/20/21 07:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 07:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 07:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 07:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/19/21 10:30	11/20/21 07:41	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130			11/19/21 10:30	11/20/21 07:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0195		0.00401	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 13:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 13:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 13:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			11/19/21 14:47	11/20/21 13:08	1
o-Terphenyl	106		70 - 130			11/19/21 14:47	11/20/21 13:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH03A

Lab Sample ID: 890-1597-9

Date Collected: 11/15/21 10:55

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.93		4.99	mg/Kg			12/01/21 01:37	1

Client Sample ID: PH03B

Lab Sample ID: 890-1597-10

Date Collected: 11/15/21 11:00

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 08:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 08:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 08:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 08:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 08:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 08:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			11/19/21 10:30	11/20/21 08:09	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/19/21 10:30	11/20/21 08:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 13:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 13:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			11/19/21 14:47	11/20/21 13:29	1
o-Terphenyl	109		70 - 130			11/19/21 14:47	11/20/21 13:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.2		4.95	mg/Kg			12/01/21 08:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH04

Lab Sample ID: 890-1597-11

Date Collected: 11/15/21 11:30

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0892		0.00201	mg/Kg		11/19/21 10:30	11/20/21 10:00	1
Toluene	30.0		0.200	mg/Kg		11/22/21 08:00	11/23/21 01:37	100
Ethylbenzene	9.60		0.200	mg/Kg		11/22/21 08:00	11/23/21 01:37	100
m-Xylene & p-Xylene	78.0		0.401	mg/Kg		11/22/21 08:00	11/23/21 01:37	100
o-Xylene	<0.200	U	0.200	mg/Kg		11/22/21 08:00	11/23/21 01:37	100
Xylenes, Total	78.0		0.401	mg/Kg		11/22/21 08:00	11/23/21 01:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130	11/19/21 10:30	11/20/21 10:00	1
1,4-Difluorobenzene (Surr)	71		70 - 130	11/19/21 10:30	11/20/21 10:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	118		0.401	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3830		250	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	381		250	mg/Kg		11/19/21 14:47	11/20/21 14:11	5
Diesel Range Organics (Over C10-C28)	3450		250	mg/Kg		11/19/21 14:47	11/20/21 14:11	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		11/19/21 14:47	11/20/21 14:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	11/19/21 14:47	11/20/21 14:11	5
o-Terphenyl	93		70 - 130	11/19/21 14:47	11/20/21 14:11	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			12/01/21 09:00	1

Client Sample ID: PH04A

Lab Sample ID: 890-1597-12

Date Collected: 11/15/21 11:35

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 10:28	1
Toluene	0.0388		0.00200	mg/Kg		11/19/21 10:30	11/20/21 10:28	1
Ethylbenzene	0.0200		0.00200	mg/Kg		11/19/21 10:30	11/20/21 10:28	1
m-Xylene & p-Xylene	0.00823		0.00400	mg/Kg		11/19/21 10:30	11/20/21 10:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 10:28	1
Xylenes, Total	0.00823		0.00400	mg/Kg		11/19/21 10:30	11/20/21 10:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	11/19/21 10:30	11/20/21 10:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH04A

Lab Sample ID: 890-1597-12

Date Collected: 11/15/21 11:35

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	11/19/21 10:30	11/20/21 10:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0670		0.00400	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 14:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			11/19/21 14:47	11/20/21 14:32	1
o-Terphenyl	102		70 - 130			11/19/21 14:47	11/20/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6		4.97	mg/Kg			12/01/21 09:12	1

Client Sample ID: PH04B

Lab Sample ID: 890-1597-13

Date Collected: 11/15/21 11:45

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 10:56	1
Toluene	0.00256		0.00201	mg/Kg		11/19/21 10:30	11/20/21 10:56	1
Ethylbenzene	0.00632		0.00201	mg/Kg		11/19/21 10:30	11/20/21 10:56	1
m-Xylene & p-Xylene	0.00622		0.00402	mg/Kg		11/19/21 10:30	11/20/21 10:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 10:56	1
Xylenes, Total	0.00622		0.00402	mg/Kg		11/19/21 10:30	11/20/21 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	11/19/21 10:30	11/20/21 10:56	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/19/21 10:30	11/20/21 10:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0151		0.00402	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	154		50.0	mg/Kg			11/22/21 13:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH04B

Lab Sample ID: 890-1597-13

Date Collected: 11/15/21 11:45

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 14:53	1
Diesel Range Organics (Over C10-C28)	154		50.0	mg/Kg		11/19/21 14:47	11/20/21 14:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			11/19/21 14:47	11/20/21 14:53	1
o-Terphenyl	93		70 - 130			11/19/21 14:47	11/20/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		4.99	mg/Kg			12/01/21 09:23	1

Client Sample ID: PH04C

Lab Sample ID: 890-1597-14

Date Collected: 11/15/21 11:55

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 11:23	1
Toluene	0.00213		0.00199	mg/Kg		11/19/21 10:30	11/20/21 11:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 11:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 11:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/19/21 10:30	11/20/21 11:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/19/21 10:30	11/20/21 11:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/19/21 10:30	11/20/21 11:23	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/19/21 10:30	11/20/21 11:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.1		50.0	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	83.1		50.0	mg/Kg		11/19/21 14:47	11/20/21 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			11/19/21 14:47	11/20/21 15:14	1
o-Terphenyl	96		70 - 130			11/19/21 14:47	11/20/21 15:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH04C

Lab Sample ID: 890-1597-14

Date Collected: 11/15/21 11:55

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/01/21 10:10	1

Client Sample ID: PH05

Lab Sample ID: 890-1597-15

Date Collected: 11/15/21 12:25

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 11:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 11:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 11:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/19/21 10:30	11/20/21 11:49	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 11:49	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/19/21 10:30	11/20/21 11:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			11/19/21 10:30	11/20/21 11:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130			11/19/21 10:30	11/20/21 11:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 15:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 15:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			11/19/21 14:47	11/20/21 15:34	1
o-Terphenyl	92		70 - 130			11/19/21 14:47	11/20/21 15:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		4.98	mg/Kg			12/01/21 09:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH05A

Lab Sample ID: 890-1597-16

Date Collected: 11/15/21 12:35

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 12:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 12:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/19/21 10:30	11/20/21 12:16	1
m-Xylene & p-Xylene	0.0749		0.00396	mg/Kg		11/19/21 10:30	11/20/21 12:16	1
o-Xylene	0.0126		0.00198	mg/Kg		11/19/21 10:30	11/20/21 12:16	1
Xylenes, Total	0.0875		0.00396	mg/Kg		11/19/21 10:30	11/20/21 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	11/19/21 10:30	11/20/21 12:16	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/19/21 10:30	11/20/21 12:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0875		0.00396	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 15:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 15:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 14:47	11/20/21 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			11/19/21 14:47	11/20/21 15:55	1
o-Terphenyl	119		70 - 130			11/19/21 14:47	11/20/21 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.94		4.96	mg/Kg			12/01/21 09:47	1

Client Sample ID: PH05B

Lab Sample ID: 890-1597-17

Date Collected: 11/15/21 12:45

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0396		0.00202	mg/Kg		11/19/21 10:30	11/20/21 12:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 12:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 12:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/19/21 10:30	11/20/21 12:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/19/21 10:30	11/20/21 12:42	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/19/21 10:30	11/20/21 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	11/19/21 10:30	11/20/21 12:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH05B

Lab Sample ID: 890-1597-17

Date Collected: 11/15/21 12:45

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	48	S1-	70 - 130	11/19/21 10:30	11/20/21 12:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0396		0.00403	mg/Kg			11/24/21 10:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/21 09:12	11/19/21 20:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/21 09:12	11/19/21 20:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/21 09:12	11/19/21 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			11/19/21 09:12	11/19/21 20:29	1
o-Terphenyl	106		70 - 130			11/19/21 09:12	11/19/21 20:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			12/01/21 09:58	1

Client Sample ID: PH06

Lab Sample ID: 890-1597-18

Date Collected: 11/15/21 12:55

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 13:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 13:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 13:09	1
m-Xylene & p-Xylene	0.00461		0.00402	mg/Kg		11/19/21 10:30	11/20/21 13:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/19/21 10:30	11/20/21 13:09	1
Xylenes, Total	0.00461		0.00402	mg/Kg		11/19/21 10:30	11/20/21 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/19/21 10:30	11/20/21 13:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/19/21 10:30	11/20/21 13:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00461		0.00402	mg/Kg			11/24/21 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH06

Lab Sample ID: 890-1597-18

Date Collected: 11/15/21 12:55

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 20:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 20:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 20:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			11/19/21 09:12	11/19/21 20:51	1
o-Terphenyl	122		70 - 130			11/19/21 09:12	11/19/21 20:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.82		4.95	mg/Kg			12/01/21 20:58	1

Client Sample ID: PH06A

Lab Sample ID: 890-1597-19

Date Collected: 11/15/21 13:10

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 13:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 13:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 13:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 13:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 13:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			11/19/21 10:30	11/20/21 13:35	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/19/21 10:30	11/20/21 13:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/24/21 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 21:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 21:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			11/19/21 09:12	11/19/21 21:14	1
o-Terphenyl	107		70 - 130			11/19/21 09:12	11/19/21 21:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH06A

Lab Sample ID: 890-1597-19

Date Collected: 11/15/21 13:10

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 6

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96	mg/Kg			12/01/21 21:06	1

Client Sample ID: PH06B

Lab Sample ID: 890-1597-20

Date Collected: 11/15/21 13:20

Matrix: Solid

Date Received: 11/18/21 11:37

Sample Depth: 11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 14:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 14:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 14:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 14:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 10:30	11/20/21 14:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/19/21 10:30	11/20/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	13	S1-	70 - 130			11/19/21 10:30	11/20/21 14:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130			11/19/21 10:30	11/20/21 14:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/24/21 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/22/21 13:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 21:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/21 09:12	11/19/21 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			11/19/21 09:12	11/19/21 21:34	1
o-Terphenyl	116		70 - 130			11/19/21 09:12	11/19/21 21:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			12/01/21 21:15	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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
		(70-130)	(70-130)
880-8509-A-23-B MS	Matrix Spike	91	123
880-8509-A-23-C MSD	Matrix Spike Duplicate	90	116
890-1597-1	PH01	112	85
890-1597-1 MS	PH01	96	109
890-1597-1 MSD	PH01	612 S1+	68 S1-
890-1597-2	PH01A	118	102
890-1597-3	PH01B	100	104
890-1597-4	PH01C	111	101
890-1597-5	PH02	109	98
890-1597-6	PH02A	106	95
890-1597-7	PH02B	123	107
890-1597-8	PH03	218 S1+	85
890-1597-9	PH03A	121	131 S1+
890-1597-10	PH03B	145 S1+	99
890-1597-11	PH04	213 S1+	71
890-1597-12	PH04A	77	115
890-1597-13	PH04B	95	91
890-1597-14	PH04C	121	106
890-1597-15	PH05	114	109
890-1597-16	PH05A	71	92
890-1597-17	PH05B	71	48 S1-
890-1597-18	PH06	93	90
890-1597-19	PH06A	124	92
890-1597-20	PH06B	13 S1-	94
LCS 880-12682/1-A	Lab Control Sample	100	103
LCS 880-12786/1-A	Lab Control Sample	117	113
LCSD 880-12682/2-A	Lab Control Sample Dup	95	106
LCSD 880-12786/2-A	Lab Control Sample Dup	100	111
MB 880-12684/5-A	Method Blank	68 S1-	96
MB 880-12786/5-A	Method Blank	66 S1-	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1597-1	PH01	96	113
890-1597-1 MS	PH01	116	103
890-1597-1 MSD	PH01	110	106
890-1597-2	PH01A	104	111
890-1597-3	PH01B	118	134 S1+
890-1597-4	PH01C	124	139 S1+
890-1597-5	PH02	103	117
890-1597-6	PH02A	115	126
890-1597-7	PH02B	99	104

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1597-1

Project/Site: Trinity Burrus Abo Unit #26

SDG: 31403471.002

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)
890-1597-8	PH03	108	108
890-1597-9	PH03A	99	106
890-1597-10	PH03B	101	109
890-1597-11	PH04	120	93
890-1597-12	PH04A	92	102
890-1597-13	PH04B	84	93
890-1597-14	PH04C	86	96
890-1597-15	PH05	84	92
890-1597-16	PH05A	108	119
890-1597-17	PH05B	94	106
890-1597-18	PH06	110	122
890-1597-19	PH06A	96	107
890-1597-20	PH06B	103	116
LCS 880-12784/2-A	Lab Control Sample	91	86
LCSD 880-12784/3-A	Lab Control Sample Dup	136 S1+	139 S1+
MB 880-12784/1-A	Method Blank	123	150 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-12682/1-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09423		mg/Kg		94	70 - 130
Toluene	0.100	0.08877		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08301		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1847		mg/Kg		92	70 - 130
o-Xylene	0.100	0.08868		mg/Kg		89	70 - 130

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

Lab Sample ID: LCSD 880-12682/2-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12682

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	6	35
Toluene	0.100	0.09538		mg/Kg		95	70 - 130	7	35
Ethylbenzene	0.100	0.09227		mg/Kg		92	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130	7	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1597-1 MS

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 12682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.101	0.05094	F1	mg/Kg		51	70 - 130
Toluene	<0.00199	U F1	0.101	0.04835	F1	mg/Kg		48	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.101	0.05210	F1	mg/Kg		52	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.201	0.07425	F1	mg/Kg		37	70 - 130
o-Xylene	<0.00199	U F1 F2	0.101	0.05931	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-1597-1 MSD

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 12682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.03758	F1	mg/Kg		38	70 - 130	30	35
Toluene	<0.00199	U F1	0.0998	0.05368	F1	mg/Kg		54	70 - 130	10	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.1250	F2	mg/Kg		125	70 - 130	82	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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

Lab Sample ID: 890-1597-1 MSD

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 12682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1705	F2	mg/Kg		85	70 - 130	79	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.03861	F1 F2	mg/Kg		39	70 - 130	42	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	612	S1+	70 - 130
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130

Lab Sample ID: MB 880-12684/5-A

Matrix: Solid

Analysis Batch: 12718

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12684

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/21 09:30	11/19/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/21 09:30	11/19/21 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	11/19/21 09:30	11/19/21 13:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/19/21 09:30	11/19/21 13:01	1

Lab Sample ID: MB 880-12786/5-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12786

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/22/21 08:00	11/22/21 15:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/22/21 08:00	11/22/21 15:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	11/22/21 08:00	11/22/21 15:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/22/21 08:00	11/22/21 15:17	1

Lab Sample ID: LCS 880-12786/1-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09549		mg/Kg		95	70 - 130
Toluene	0.100	0.1078		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2452		mg/Kg		123	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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

Lab Sample ID: LCS 880-12786/1-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-12786/2-A

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08790		mg/Kg		88	70 - 130	8	35
Toluene	0.100	0.08563		mg/Kg		86	70 - 130	23	35
Ethylbenzene	0.100	0.08519		mg/Kg		85	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1905		mg/Kg		95	70 - 130	25	35
o-Xylene	0.100	0.08983		mg/Kg		90	70 - 130	23	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-8509-A-23-B MS

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	0.06002	F1	mg/Kg		60	70 - 130
Toluene	<0.00199	U F1	0.100	0.05472	F1	mg/Kg		55	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.04726	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1012	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05081	F1	mg/Kg		51	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 880-8509-A-23-C MSD

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.05758	F1	mg/Kg		58	70 - 130	4	35
Toluene	<0.00199	U F1	0.0998	0.05483	F1	mg/Kg		55	70 - 130	0	35
Ethylbenzene	<0.00199	U F1	0.0998	0.04956	F1	mg/Kg		50	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1065	F1	mg/Kg		53	70 - 130	5	35
o-Xylene	<0.00199	U F1	0.0998	0.05334	F1	mg/Kg		53	70 - 130	5	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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

Lab Sample ID: 880-8509-A-23-C MSD

Matrix: Solid

Analysis Batch: 12909

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 12786

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

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

Lab Sample ID: MB 880-12784/1-A

Matrix: Solid

Analysis Batch: 12737

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12784

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 08:11	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 08:11	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/21 14:47	11/20/21 08:11	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	123		70 - 130			11/19/21 14:47	11/20/21 08:11	1	
o-Terphenyl	150	S1+	70 - 130			11/19/21 14:47	11/20/21 08:11	1	

Lab Sample ID: LCS 880-12784/2-A

Matrix: Solid

Analysis Batch: 12737

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12784

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	821.2		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	921.9		mg/Kg		92	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	91		70 - 130							
o-Terphenyl	86		70 - 130							

Lab Sample ID: LCSD 880-12784/3-A

Matrix: Solid

Analysis Batch: 12737

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 12784

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	811.1		mg/Kg		81	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	988.3		mg/Kg		99	70 - 130	7	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	136	S1+	70 - 130								
o-Terphenyl	139	S1+	70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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

Lab Sample ID: 890-1597-1 MS

Matrix: Solid

Analysis Batch: 12737

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 12784

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	887.7		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	809.9		mg/Kg		80	70 - 130		

Lab Sample ID: 890-1597-1 MSD

Matrix: Solid

Analysis Batch: 12737

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 12784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1042		mg/Kg		104	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	854.8		mg/Kg		84	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	106		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12803/1-A

Matrix: Solid

Analysis Batch: 13320

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/30/21 21:43	1

Lab Sample ID: LCS 880-12803/2-A

Matrix: Solid

Analysis Batch: 13320

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	274.7		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-12803/3-A

Matrix: Solid

Analysis Batch: 13320

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	274.8		mg/Kg		110	90 - 110	0	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1597-8 MS

Matrix: Solid

Analysis Batch: 13320

Client Sample ID: PH03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<5.00	U F1	250	288.8	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-1597-8 MSD

Matrix: Solid

Analysis Batch: 13320

Client Sample ID: PH03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.00	U F1	250	286.8	F1	mg/Kg		113	90 - 110	1	20

Lab Sample ID: MB 880-12805/1-A

Matrix: Solid

Analysis Batch: 13350

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/01/21 17:03	1

Lab Sample ID: LCS 880-12805/2-A

Matrix: Solid

Analysis Batch: 13350

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-12805/3-A

Matrix: Solid

Analysis Batch: 13350

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-8488-A-10-B MS

Matrix: Solid

Analysis Batch: 13350

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	385		248	623.7		mg/Kg		96	90 - 110

Lab Sample ID: 880-8488-A-10-C MSD

Matrix: Solid

Analysis Batch: 13350

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	385		248	617.2		mg/Kg		94	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

GC VOA

Prep Batch: 12682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Total/NA	Solid	5035	
890-1597-2	PH01A	Total/NA	Solid	5035	
890-1597-3	PH01B	Total/NA	Solid	5035	
890-1597-4	PH01C	Total/NA	Solid	5035	
890-1597-5	PH02	Total/NA	Solid	5035	
890-1597-6	PH02A	Total/NA	Solid	5035	
890-1597-7	PH02B	Total/NA	Solid	5035	
890-1597-8	PH03	Total/NA	Solid	5035	
890-1597-9	PH03A	Total/NA	Solid	5035	
890-1597-10	PH03B	Total/NA	Solid	5035	
890-1597-11	PH04	Total/NA	Solid	5035	
890-1597-12	PH04A	Total/NA	Solid	5035	
890-1597-13	PH04B	Total/NA	Solid	5035	
890-1597-14	PH04C	Total/NA	Solid	5035	
890-1597-15	PH05	Total/NA	Solid	5035	
890-1597-16	PH05A	Total/NA	Solid	5035	
890-1597-17	PH05B	Total/NA	Solid	5035	
890-1597-18	PH06	Total/NA	Solid	5035	
890-1597-19	PH06A	Total/NA	Solid	5035	
890-1597-20	PH06B	Total/NA	Solid	5035	
LCS 880-12682/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12682/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1597-1 MS	PH01	Total/NA	Solid	5035	
890-1597-1 MSD	PH01	Total/NA	Solid	5035	

Prep Batch: 12684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12684/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 12718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Total/NA	Solid	8021B	12682
890-1597-2	PH01A	Total/NA	Solid	8021B	12682
890-1597-3	PH01B	Total/NA	Solid	8021B	12682
890-1597-4	PH01C	Total/NA	Solid	8021B	12682
890-1597-5	PH02	Total/NA	Solid	8021B	12682
890-1597-6	PH02A	Total/NA	Solid	8021B	12682
890-1597-7	PH02B	Total/NA	Solid	8021B	12682
890-1597-8	PH03	Total/NA	Solid	8021B	12682
890-1597-9	PH03A	Total/NA	Solid	8021B	12682
890-1597-10	PH03B	Total/NA	Solid	8021B	12682
890-1597-11	PH04	Total/NA	Solid	8021B	12682
890-1597-12	PH04A	Total/NA	Solid	8021B	12682
890-1597-13	PH04B	Total/NA	Solid	8021B	12682
890-1597-14	PH04C	Total/NA	Solid	8021B	12682
890-1597-15	PH05	Total/NA	Solid	8021B	12682
890-1597-16	PH05A	Total/NA	Solid	8021B	12682
890-1597-17	PH05B	Total/NA	Solid	8021B	12682
890-1597-18	PH06	Total/NA	Solid	8021B	12682
890-1597-19	PH06A	Total/NA	Solid	8021B	12682
890-1597-20	PH06B	Total/NA	Solid	8021B	12682

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

GC VOA (Continued)

Analysis Batch: 12718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-12684/5-A	Method Blank	Total/NA	Solid	8021B	12684
LCS 880-12682/1-A	Lab Control Sample	Total/NA	Solid	8021B	12682
LCSD 880-12682/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12682
890-1597-1 MS	PH01	Total/NA	Solid	8021B	12682
890-1597-1 MSD	PH01	Total/NA	Solid	8021B	12682

Prep Batch: 12786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-11	PH04	Total/NA	Solid	5035	
MB 880-12786/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12786/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12786/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8509-A-23-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8509-A-23-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 12909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-11	PH04	Total/NA	Solid	8021B	12786
MB 880-12786/5-A	Method Blank	Total/NA	Solid	8021B	12786
LCS 880-12786/1-A	Lab Control Sample	Total/NA	Solid	8021B	12786
LCSD 880-12786/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12786
880-8509-A-23-B MS	Matrix Spike	Total/NA	Solid	8021B	12786
880-8509-A-23-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	12786

Analysis Batch: 12945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Total/NA	Solid	Total BTEX	
890-1597-2	PH01A	Total/NA	Solid	Total BTEX	
890-1597-3	PH01B	Total/NA	Solid	Total BTEX	
890-1597-4	PH01C	Total/NA	Solid	Total BTEX	
890-1597-5	PH02	Total/NA	Solid	Total BTEX	
890-1597-6	PH02A	Total/NA	Solid	Total BTEX	
890-1597-7	PH02B	Total/NA	Solid	Total BTEX	
890-1597-9	PH03A	Total/NA	Solid	Total BTEX	
890-1597-10	PH03B	Total/NA	Solid	Total BTEX	
890-1597-11	PH04	Total/NA	Solid	Total BTEX	
890-1597-12	PH04A	Total/NA	Solid	Total BTEX	
890-1597-13	PH04B	Total/NA	Solid	Total BTEX	
890-1597-14	PH04C	Total/NA	Solid	Total BTEX	
890-1597-15	PH05	Total/NA	Solid	Total BTEX	
890-1597-16	PH05A	Total/NA	Solid	Total BTEX	
890-1597-17	PH05B	Total/NA	Solid	Total BTEX	
890-1597-18	PH06	Total/NA	Solid	Total BTEX	
890-1597-19	PH06A	Total/NA	Solid	Total BTEX	
890-1597-20	PH06B	Total/NA	Solid	Total BTEX	

Analysis Batch: 13453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-8	PH03	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

GC Semi VOA

Prep Batch: 12716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-17	PH05B	Total/NA	Solid	8015NM Prep	
890-1597-18	PH06	Total/NA	Solid	8015NM Prep	
890-1597-19	PH06A	Total/NA	Solid	8015NM Prep	
890-1597-20	PH06B	Total/NA	Solid	8015NM Prep	

Analysis Batch: 12735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-17	PH05B	Total/NA	Solid	8015B NM	12716
890-1597-18	PH06	Total/NA	Solid	8015B NM	12716
890-1597-19	PH06A	Total/NA	Solid	8015B NM	12716
890-1597-20	PH06B	Total/NA	Solid	8015B NM	12716

Analysis Batch: 12737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Total/NA	Solid	8015B NM	12784
890-1597-2	PH01A	Total/NA	Solid	8015B NM	12784
890-1597-3	PH01B	Total/NA	Solid	8015B NM	12784
890-1597-4	PH01C	Total/NA	Solid	8015B NM	12784
890-1597-5	PH02	Total/NA	Solid	8015B NM	12784
890-1597-6	PH02A	Total/NA	Solid	8015B NM	12784
890-1597-7	PH02B	Total/NA	Solid	8015B NM	12784
890-1597-8	PH03	Total/NA	Solid	8015B NM	12784
890-1597-9	PH03A	Total/NA	Solid	8015B NM	12784
890-1597-10	PH03B	Total/NA	Solid	8015B NM	12784
890-1597-11	PH04	Total/NA	Solid	8015B NM	12784
890-1597-12	PH04A	Total/NA	Solid	8015B NM	12784
890-1597-13	PH04B	Total/NA	Solid	8015B NM	12784
890-1597-14	PH04C	Total/NA	Solid	8015B NM	12784
890-1597-15	PH05	Total/NA	Solid	8015B NM	12784
890-1597-16	PH05A	Total/NA	Solid	8015B NM	12784
MB 880-12784/1-A	Method Blank	Total/NA	Solid	8015B NM	12784
LCS 880-12784/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	12784
LCSD 880-12784/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	12784
890-1597-1 MS	PH01	Total/NA	Solid	8015B NM	12784
890-1597-1 MSD	PH01	Total/NA	Solid	8015B NM	12784

Analysis Batch: 12781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Total/NA	Solid	8015 NM	
890-1597-2	PH01A	Total/NA	Solid	8015 NM	
890-1597-3	PH01B	Total/NA	Solid	8015 NM	
890-1597-4	PH01C	Total/NA	Solid	8015 NM	
890-1597-5	PH02	Total/NA	Solid	8015 NM	
890-1597-6	PH02A	Total/NA	Solid	8015 NM	
890-1597-7	PH02B	Total/NA	Solid	8015 NM	
890-1597-8	PH03	Total/NA	Solid	8015 NM	
890-1597-9	PH03A	Total/NA	Solid	8015 NM	
890-1597-10	PH03B	Total/NA	Solid	8015 NM	
890-1597-11	PH04	Total/NA	Solid	8015 NM	
890-1597-12	PH04A	Total/NA	Solid	8015 NM	
890-1597-13	PH04B	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

GC Semi VOA (Continued)

Analysis Batch: 12781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-14	PH04C	Total/NA	Solid	8015 NM	
890-1597-15	PH05	Total/NA	Solid	8015 NM	
890-1597-16	PH05A	Total/NA	Solid	8015 NM	
890-1597-17	PH05B	Total/NA	Solid	8015 NM	
890-1597-18	PH06	Total/NA	Solid	8015 NM	
890-1597-19	PH06A	Total/NA	Solid	8015 NM	
890-1597-20	PH06B	Total/NA	Solid	8015 NM	

Prep Batch: 12784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Total/NA	Solid	8015NM Prep	
890-1597-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1597-3	PH01B	Total/NA	Solid	8015NM Prep	
890-1597-4	PH01C	Total/NA	Solid	8015NM Prep	
890-1597-5	PH02	Total/NA	Solid	8015NM Prep	
890-1597-6	PH02A	Total/NA	Solid	8015NM Prep	
890-1597-7	PH02B	Total/NA	Solid	8015NM Prep	
890-1597-8	PH03	Total/NA	Solid	8015NM Prep	
890-1597-9	PH03A	Total/NA	Solid	8015NM Prep	
890-1597-10	PH03B	Total/NA	Solid	8015NM Prep	
890-1597-11	PH04	Total/NA	Solid	8015NM Prep	
890-1597-12	PH04A	Total/NA	Solid	8015NM Prep	
890-1597-13	PH04B	Total/NA	Solid	8015NM Prep	
890-1597-14	PH04C	Total/NA	Solid	8015NM Prep	
890-1597-15	PH05	Total/NA	Solid	8015NM Prep	
890-1597-16	PH05A	Total/NA	Solid	8015NM Prep	
MB 880-12784/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-12784/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-12784/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1597-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-1597-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 12803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Soluble	Solid	DI Leach	
890-1597-2	PH01A	Soluble	Solid	DI Leach	
890-1597-3	PH01B	Soluble	Solid	DI Leach	
890-1597-4	PH01C	Soluble	Solid	DI Leach	
890-1597-5	PH02	Soluble	Solid	DI Leach	
890-1597-6	PH02A	Soluble	Solid	DI Leach	
890-1597-7	PH02B	Soluble	Solid	DI Leach	
890-1597-8	PH03	Soluble	Solid	DI Leach	
890-1597-9	PH03A	Soluble	Solid	DI Leach	
890-1597-10	PH03B	Soluble	Solid	DI Leach	
890-1597-11	PH04	Soluble	Solid	DI Leach	
890-1597-12	PH04A	Soluble	Solid	DI Leach	
890-1597-13	PH04B	Soluble	Solid	DI Leach	
890-1597-14	PH04C	Soluble	Solid	DI Leach	
890-1597-15	PH05	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

HPLC/IC (Continued)

Leach Batch: 12803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-16	PH05A	Soluble	Solid	DI Leach	
890-1597-17	PH05B	Soluble	Solid	DI Leach	
MB 880-12803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1597-8 MS	PH03	Soluble	Solid	DI Leach	
890-1597-8 MSD	PH03	Soluble	Solid	DI Leach	

Leach Batch: 12805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-18	PH06	Soluble	Solid	DI Leach	
890-1597-19	PH06A	Soluble	Solid	DI Leach	
890-1597-20	PH06B	Soluble	Solid	DI Leach	
MB 880-12805/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12805/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12805/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8488-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8488-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 13320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-1	PH01	Soluble	Solid	300.0	12803
890-1597-2	PH01A	Soluble	Solid	300.0	12803
890-1597-3	PH01B	Soluble	Solid	300.0	12803
890-1597-4	PH01C	Soluble	Solid	300.0	12803
890-1597-5	PH02	Soluble	Solid	300.0	12803
890-1597-6	PH02A	Soluble	Solid	300.0	12803
890-1597-7	PH02B	Soluble	Solid	300.0	12803
890-1597-8	PH03	Soluble	Solid	300.0	12803
890-1597-9	PH03A	Soluble	Solid	300.0	12803
890-1597-10	PH03B	Soluble	Solid	300.0	12803
890-1597-11	PH04	Soluble	Solid	300.0	12803
890-1597-12	PH04A	Soluble	Solid	300.0	12803
890-1597-13	PH04B	Soluble	Solid	300.0	12803
890-1597-14	PH04C	Soluble	Solid	300.0	12803
890-1597-15	PH05	Soluble	Solid	300.0	12803
890-1597-16	PH05A	Soluble	Solid	300.0	12803
890-1597-17	PH05B	Soluble	Solid	300.0	12803
MB 880-12803/1-A	Method Blank	Soluble	Solid	300.0	12803
LCS 880-12803/2-A	Lab Control Sample	Soluble	Solid	300.0	12803
LCSD 880-12803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12803
890-1597-8 MS	PH03	Soluble	Solid	300.0	12803
890-1597-8 MSD	PH03	Soluble	Solid	300.0	12803

Analysis Batch: 13350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1597-18	PH06	Soluble	Solid	300.0	12805
890-1597-19	PH06A	Soluble	Solid	300.0	12805
890-1597-20	PH06B	Soluble	Solid	300.0	12805
MB 880-12805/1-A	Method Blank	Soluble	Solid	300.0	12805
LCS 880-12805/2-A	Lab Control Sample	Soluble	Solid	300.0	12805

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

HPLC/IC (Continued)

Analysis Batch: 13350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-12805/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12805
880-8488-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	12805
880-8488-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12805

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH01

Lab Sample ID: 890-1597-1

Date Collected: 11/15/21 10:00

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 04:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 09:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	11/30/21 23:16	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-1597-2

Date Collected: 11/15/21 10:05

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 04:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 10:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	11/30/21 23:28	CH	XEN MID

Client Sample ID: PH01B

Lab Sample ID: 890-1597-3

Date Collected: 11/15/21 10:10

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 05:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 11:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 00:03	CH	XEN MID

Client Sample ID: PH01C

Lab Sample ID: 890-1597-4

Date Collected: 11/15/21 10:15

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 05:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH01C

Lab Sample ID: 890-1597-4

Date Collected: 11/15/21 10:15

Matrix: Solid

Date Received: 11/18/21 11:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 11:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 00:15	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-1597-5

Date Collected: 11/15/21 10:30

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 05:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 11:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 00:26	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-1597-6

Date Collected: 11/15/21 10:35

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 06:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 12:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 00:38	CH	XEN MID

Client Sample ID: PH02B

Lab Sample ID: 890-1597-7

Date Collected: 11/15/21 10:40

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 06:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 12:25	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH02B

Lab Sample ID: 890-1597-7

Date Collected: 11/15/21 10:40

Matrix: Solid

Date Received: 11/18/21 11:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 00:50	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-1597-8

Date Collected: 11/15/21 10:50

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 07:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			13453	11/30/21 11:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 12:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 01:01	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-1597-9

Date Collected: 11/15/21 10:55

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 07:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 13:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 01:37	CH	XEN MID

Client Sample ID: PH03B

Lab Sample ID: 890-1597-10

Date Collected: 11/15/21 11:00

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 08:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 13:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 08:25	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH04

Lab Sample ID: 890-1597-11

Date Collected: 11/15/21 11:30

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 10:00	MR	XEN MID
Total/NA	Prep	5035			4.99 g	5 mL	12786	11/22/21 08:00	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	12909	11/23/21 01:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		5			12737	11/20/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 09:00	CH	XEN MID

Client Sample ID: PH04A

Lab Sample ID: 890-1597-12

Date Collected: 11/15/21 11:35

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 10:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 09:12	CH	XEN MID

Client Sample ID: PH04B

Lab Sample ID: 890-1597-13

Date Collected: 11/15/21 11:45

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 10:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 09:23	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH04C

Lab Sample ID: 890-1597-14

Date Collected: 11/15/21 11:55

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 11:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 10:10	CH	XEN MID

Client Sample ID: PH05

Lab Sample ID: 890-1597-15

Date Collected: 11/15/21 12:25

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 11:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 09:35	CH	XEN MID

Client Sample ID: PH05A

Lab Sample ID: 890-1597-16

Date Collected: 11/15/21 12:35

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 12:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12784	11/19/21 14:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12737	11/20/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 09:47	CH	XEN MID

Client Sample ID: PH05B

Lab Sample ID: 890-1597-17

Date Collected: 11/15/21 12:45

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 12:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:52	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH05B

Lab Sample ID: 890-1597-17

Date Collected: 11/15/21 12:45

Matrix: Solid

Date Received: 11/18/21 11:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 20:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12803	11/19/21 16:51	SC	XEN MID
Soluble	Analysis	300.0		1			13320	12/01/21 09:58	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-1597-18

Date Collected: 11/15/21 12:55

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 13:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 20:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	12805	11/19/21 16:56	SC	XEN MID
Soluble	Analysis	300.0		1			13350	12/01/21 20:58	CH	XEN MID

Client Sample ID: PH06A

Lab Sample ID: 890-1597-19

Date Collected: 11/15/21 13:10

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 13:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 21:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	12805	11/19/21 16:56	SC	XEN MID
Soluble	Analysis	300.0		1			13350	12/01/21 21:06	CH	XEN MID

Client Sample ID: PH06B

Lab Sample ID: 890-1597-20

Date Collected: 11/15/21 13:20

Matrix: Solid

Date Received: 11/18/21 11:37

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	12682	11/19/21 10:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	12718	11/20/21 14:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			12945	11/24/21 10:56	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			12781	11/22/21 13:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	12716	11/19/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1			12735	11/19/21 21:34	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Client Sample ID: PH06B
Date Collected: 11/15/21 13:20
Date Received: 11/18/21 11:37

Lab Sample ID: 890-1597-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	12805	11/19/21 16:56	SC	XEN MID
Soluble	Analysis	300.0		1			13350	12/01/21 21:15	CH	XEN MID

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 13
- 14

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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: Trinity Burrus Abo Unit #26

Job ID: 890-1597-1
SDG: 31403471.002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1597-1	PH01	Solid	11/15/21 10:00	11/18/21 11:37	2
890-1597-2	PH01A	Solid	11/15/21 10:05	11/18/21 11:37	8
890-1597-3	PH01B	Solid	11/15/21 10:10	11/18/21 11:37	10
890-1597-4	PH01C	Solid	11/15/21 10:15	11/18/21 11:37	11
890-1597-5	PH02	Solid	11/15/21 10:30	11/18/21 11:37	2
890-1597-6	PH02A	Solid	11/15/21 10:35	11/18/21 11:37	4
890-1597-7	PH02B	Solid	11/15/21 10:40	11/18/21 11:37	5
890-1597-8	PH03	Solid	11/15/21 10:50	11/18/21 11:37	2
890-1597-9	PH03A	Solid	11/15/21 10:55	11/18/21 11:37	4
890-1597-10	PH03B	Solid	11/15/21 11:00	11/18/21 11:37	5
890-1597-11	PH04	Solid	11/15/21 11:30	11/18/21 11:37	2
890-1597-12	PH04A	Solid	11/15/21 11:35	11/18/21 11:37	6
890-1597-13	PH04B	Solid	11/15/21 11:45	11/18/21 11:37	8
890-1597-14	PH04C	Solid	11/15/21 11:55	11/18/21 11:37	11
890-1597-15	PH05	Solid	11/15/21 12:25	11/18/21 11:37	2
890-1597-16	PH05A	Solid	11/15/21 12:35	11/18/21 11:37	6
890-1597-17	PH05B	Solid	11/15/21 12:45	11/18/21 11:37	11
890-1597-18	PH06	Solid	11/15/21 12:55	11/18/21 11:37	2
890-1597-19	PH06A	Solid	11/15/21 13:10	11/18/21 11:37	6
890-1597-20	PH06B	Solid	11/15/21 13:20	11/18/21 11:37	11



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Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: _____

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Bldg 1, Unit 222	Address:	3300 North A Street Bldg 1, Unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	kalei.jennings@wsp.com, payton.benner@wsp.com

Program: ☐ UST/PST ☐ RP ☐ Crownfields ☐ RC ☐ perfund	
State of Project:	
Reporting Level: II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

ANALYSIS REQUEST

Work Order Notes

Project Name:	Trinity Burrus Abo Unit #26	Turn Around	
Project Number:	31403471.002	Routine	☒
P.O. Number:	Task #2	Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT		Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
Temperature (°C):	14.1-2	Thermometer ID	TMM003		
Received In tact:	☒ Yes ☐ No	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes ☐ No ☐ N/A	Total Containers:			



890-1597 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8015)	Chloride (EPA 8015)	Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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
TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 -Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11/18/21	<i>[Signature]</i>	<i>[Signature]</i>	11/18/21



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 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: _____

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Bldg 1, Unit 222	Address:	3300 North A Street Bldg 1, Unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	kalei.jennings@wsp.com, payton.benner@wsp.com

Program: ☐ UST/PT ☐ RRP ☐ Crowfields ☐ RC ☐ Superfund
State of Project:
Reporting Level: ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	Trinity Burns Abo Unit #26	Turn Around	☒
Project Number:	31403471.002	Routine	☒
P.O. Number:	TASK 832	Rush:	
Sampler's Name:	Payton Benner	Due Date:	

Temperature (°C):		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Received Intact:	Yes	No	Thermometer ID				
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX (EPA 8061)	Chloride (EPA 8062)																Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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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
 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 1634 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Payton Benner</i>	<i>Chane Byers</i>	11/15/21	<i>Chane Byers</i>	<i>Chane Byers</i>	11/18/21

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1597-1

SDG Number: 31403471.002

Login Number: 1597

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: 890-1597-1

SDG Number: 31403471.002

Login Number: 1597

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/19/21 11:47 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	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1850-1

Laboratory Sample Delivery Group: 31403471.002 Task 2
Client Project/Site: Trinity Burrus Abo Unit #26

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
1/31/2022 1:42:37 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: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	15
QC Association Summary	21
Lab Chronicle	24
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	31

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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
SQL	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)

Eurofins Carlsbad

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Job ID: 890-1850-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1850-1

Receipt

The samples were received on 1/20/2022 12:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-17333 and analytical batch 880-17443 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS05 (890-1850-5), SW01 (890-1850-6) and SW03 (890-1850-8). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-17627 and analytical batch 880-17551 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17627 and analytical batch 880-17551 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-17627/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17555 and analytical batch 880-17726 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17558 and analytical batch 880-17735 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: FS01

Lab Sample ID: 890-1850-1

Date Collected: 01/18/22 10:30

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 17:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 17:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 17:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/21/22 16:00	01/21/22 17:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 17:51	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/21/22 16:00	01/21/22 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	01/21/22 16:00	01/21/22 17:51	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/21/22 16:00	01/21/22 17:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/22 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		01/20/22 12:53	01/21/22 15:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 15:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	01/20/22 12:53	01/21/22 15:57	1
o-Terphenyl	71		70 - 130	01/20/22 12:53	01/21/22 15:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1		4.96	mg/Kg			01/26/22 16:10	1

Client Sample ID: FS02

Lab Sample ID: 890-1850-2

Date Collected: 01/18/22 12:20

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/21/22 18:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/21/22 18:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/21/22 18:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/21/22 16:00	01/21/22 18:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/21/22 16:00	01/21/22 18:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/21/22 16:00	01/21/22 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/21/22 16:00	01/21/22 18:11	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: FS02

Lab Sample ID: 890-1850-2

Date Collected: 01/18/22 12:20

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/22 16:00	01/21/22 18:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/22 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		01/20/22 12:53	01/21/22 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			01/20/22 12:53	01/21/22 16:18	1
o-Terphenyl	75		70 - 130			01/20/22 12:53	01/21/22 16:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		5.02	mg/Kg			01/28/22 22:12	1

Client Sample ID: FS03

Lab Sample ID: 890-1850-3

Date Collected: 01/19/22 12:05

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 18:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 18:32	1
Ethylbenzene	0.00202		0.00202	mg/Kg		01/21/22 16:00	01/21/22 18:32	1
m-Xylene & p-Xylene	0.00907		0.00404	mg/Kg		01/21/22 16:00	01/21/22 18:32	1
o-Xylene	0.00389		0.00202	mg/Kg		01/21/22 16:00	01/21/22 18:32	1
Xylenes, Total	0.0130		0.00404	mg/Kg		01/21/22 16:00	01/21/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	01/21/22 16:00	01/21/22 18:32	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/21/22 16:00	01/21/22 18:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0150		0.00404	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.3		50.0	mg/Kg			01/21/22 14:20	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: FS03

Lab Sample ID: 890-1850-3

Date Collected: 01/19/22 12:05

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		01/20/22 12:53	01/21/22 16:39	1
Diesel Range Organics (Over C10-C28)	96.3		50.0	mg/Kg		01/20/22 12:53	01/21/22 16:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			01/20/22 12:53	01/21/22 16:39	1
o-Terphenyl	70		70 - 130			01/20/22 12:53	01/21/22 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		4.95	mg/Kg			01/28/22 22:19	1

Client Sample ID: FS04

Lab Sample ID: 890-1850-4

Date Collected: 01/19/22 12:07

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/21/22 16:00	01/21/22 18:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/21/22 16:00	01/21/22 18:52	1
Ethylbenzene	0.00246		0.00201	mg/Kg		01/21/22 16:00	01/21/22 18:52	1
m-Xylene & p-Xylene	0.0107		0.00402	mg/Kg		01/21/22 16:00	01/21/22 18:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/21/22 16:00	01/21/22 18:52	1
Xylenes, Total	0.0107		0.00402	mg/Kg		01/21/22 16:00	01/21/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			01/21/22 16:00	01/21/22 18:52	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/21/22 16:00	01/21/22 18:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0132		0.00402	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.3		50.0	mg/Kg			01/21/22 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		01/20/22 12:53	01/21/22 17:00	1
Diesel Range Organics (Over C10-C28)	87.3		50.0	mg/Kg		01/20/22 12:53	01/21/22 17:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			01/20/22 12:53	01/21/22 17:00	1
o-Terphenyl	87		70 - 130			01/20/22 12:53	01/21/22 17:00	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: FS04

Lab Sample ID: 890-1850-4

Date Collected: 01/19/22 12:07

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		5.00	mg/Kg			01/28/22 22:27	1

Client Sample ID: FS05

Lab Sample ID: 890-1850-5

Date Collected: 01/19/22 12:09

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/21/22 16:00	01/21/22 19:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/21/22 16:00	01/21/22 19:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/21/22 16:00	01/21/22 19:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/21/22 16:00	01/21/22 19:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/21/22 16:00	01/21/22 19:13	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/21/22 16:00	01/21/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			01/21/22 16:00	01/21/22 19:13	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/21/22 16:00	01/21/22 19:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/21/22 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9	mg/Kg		01/20/22 12:53	01/21/22 17:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/22 12:53	01/21/22 17:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 12:53	01/21/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			01/20/22 12:53	01/21/22 17:42	1
o-Terphenyl	69	S1-	70 - 130			01/20/22 12:53	01/21/22 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	463		4.99	mg/Kg			01/29/22 10:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: SW01

Lab Sample ID: 890-1850-6

Date Collected: 01/18/22 12:15

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 19:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 19:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 19:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/21/22 16:00	01/21/22 19:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/21/22 16:00	01/21/22 19:33	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/21/22 16:00	01/21/22 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/21/22 16:00	01/21/22 19:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/21/22 16:00	01/21/22 19:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	131		50.0	mg/Kg			01/21/22 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		01/20/22 12:53	01/21/22 18:03	1
Diesel Range Organics (Over C10-C28)	131		50.0	mg/Kg		01/20/22 12:53	01/21/22 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	01/20/22 12:53	01/21/22 18:03	1
o-Terphenyl	69	S1-	70 - 130	01/20/22 12:53	01/21/22 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		4.96	mg/Kg			01/29/22 11:00	1

Client Sample ID: SW02

Lab Sample ID: 890-1850-7

Date Collected: 01/18/22 12:17

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/22 16:00	01/21/22 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 19:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/22 16:00	01/21/22 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/21/22 16:00	01/21/22 19:53	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: SW02

Lab Sample ID: 890-1850-7

Date Collected: 01/18/22 12:17

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 0 - 8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	01/21/22 16:00	01/21/22 19:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.6		49.9	mg/Kg			01/21/22 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9	mg/Kg		01/20/22 12:53	01/21/22 18:23	1
Diesel Range Organics (Over C10-C28)	94.6		49.9	mg/Kg		01/20/22 12:53	01/21/22 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/22 12:53	01/21/22 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			01/20/22 12:53	01/21/22 18:23	1
o-Terphenyl	70		70 - 130			01/20/22 12:53	01/21/22 18:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		4.98	mg/Kg			01/29/22 11:08	1

Client Sample ID: SW03

Lab Sample ID: 890-1850-8

Date Collected: 01/19/22 12:12

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 20:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 20:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 20:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/21/22 16:00	01/21/22 20:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 16:00	01/21/22 20:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/21/22 16:00	01/21/22 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/21/22 16:00	01/21/22 20:14	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/21/22 16:00	01/21/22 20:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	285		50.0	mg/Kg			01/21/22 14:20	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: SW03

Lab Sample ID: 890-1850-8

Date Collected: 01/19/22 12:12

Matrix: Solid

Date Received: 01/20/22 12:32

Sample Depth: 0 - 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0	mg/Kg		01/20/22 12:53	01/21/22 18:44	1
Diesel Range Organics (Over C10-C28)	285		50.0	mg/Kg		01/20/22 12:53	01/21/22 18:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 12:53	01/21/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			01/20/22 12:53	01/21/22 18:44	1
o-Terphenyl	66	S1-	70 - 130			01/20/22 12:53	01/21/22 18:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563		5.00	mg/Kg			01/29/22 11:15	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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)				
880-10410-A-1-D MS	Matrix Spike	103	98				
880-10410-A-1-E MSD	Matrix Spike Duplicate	73	127				
890-1850-1	FS01	124	86				
890-1850-2	FS02	118	106				
890-1850-3	FS03	128	105				
890-1850-4	FS04	131 S1+	104				
890-1850-5	FS05	125	105				
890-1850-6	SW01	115	95				
890-1850-7	SW02	111	90				
890-1850-8	SW03	126	91				
LCS 880-17341/1-A	Lab Control Sample	116	98				
LCSD 880-17341/2-A	Lab Control Sample Dup	130	107				
MB 880-17341/5-A	Method Blank	122	103				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
880-10392-A-1-C MS	Matrix Spike	67 S1-	64 S1-				
880-10392-A-1-D MSD	Matrix Spike Duplicate	75	77				
880-10483-A-21-F MS	Matrix Spike	85	80				
880-10483-A-21-G MSD	Matrix Spike Duplicate	86	81				
890-1850-1	FS01	72	71				
890-1850-2	FS02	77	75				
890-1850-3	FS03	72	70				
890-1850-4	FS04	87	87				
890-1850-5	FS05	72	69 S1-				
890-1850-6	SW01	71	69 S1-				
890-1850-7	SW02	73	70				
890-1850-8	SW03	68 S1-	66 S1-				
LCS 880-17627/2-A	Lab Control Sample	117	120				
LCSD 880-17627/3-A	Lab Control Sample Dup	126	133 S1+				
MB 880-17627/1-A	Method Blank	103	116				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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	1CO2 (70-130)	OTPH2 (70-130)				
LCS 880-17333/2-A	Lab Control Sample	87	88				

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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	1CO2 (70-130)	OTPH2 (70-130)
LCSD 880-17333/3-A	Lab Control Sample Dup	81	80
MB 880-17333/1-A	Method Blank	95	93
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17341/5-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17341

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/22 09:38	01/21/22 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/21/22 09:38	01/21/22 11:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/21/22 09:38	01/21/22 11:47	1

Lab Sample ID: LCS 880-17341/1-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09149		mg/Kg		91	70 - 130
Toluene	0.100	0.09080		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.1924		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09491		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-17341/2-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17341

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1019		mg/Kg		102	70 - 130	11	35
Toluene	0.100	0.1119		mg/Kg		112	70 - 130	21	35
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2164		mg/Kg		108	70 - 130	12	35
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130	11	35

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

Lab Sample ID: 880-10410-A-1-D MS

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.0994	0.04993	F1	mg/Kg		50	70 - 130
Toluene	<0.00198	U F2 F1	0.0994	0.04385	F1	mg/Kg		44	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: 880-10410-A-1-D MS

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F2 F1	0.0994	0.02869	F1	mg/Kg		29	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.05642	F1	mg/Kg		28	70 - 130
o-Xylene	<0.00198	U F1	0.0994	0.02349	F1	mg/Kg		24	70 - 130

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

Lab Sample ID: 880-10410-A-1-E MSD

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.100	0.01494	F2 F1	mg/Kg		15	70 - 130	108	35
Toluene	<0.00198	U F2 F1	0.100	0.1319	F1 F2	mg/Kg		132	70 - 130	100	35
Ethylbenzene	<0.00198	U F2 F1	0.100	0.01509	F2 F1	mg/Kg		15	70 - 130	62	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.04417	F1	mg/Kg		22	70 - 130	24	35
o-Xylene	<0.00198	U F1	0.100	0.02201	F1	mg/Kg		22	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	127		70 - 130

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

Lab Sample ID: MB 880-17333/1-A

Matrix: Solid

Analysis Batch: 17443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17333

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/22 08:53	01/21/22 12:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/22 08:53	01/21/22 12:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/22 08:53	01/21/22 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	01/20/22 08:53	01/21/22 12:08	1
o-Terphenyl	93		70 - 130	01/20/22 08:53	01/21/22 12:08	1

Lab Sample ID: LCS 880-17333/2-A

Matrix: Solid

Analysis Batch: 17443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	774.6		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	1000	750.6		mg/Kg		75	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: LCS 880-17333/2-A
Matrix: Solid
Analysis Batch: 17443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17333

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: LCSD 880-17333/3-A
Matrix: Solid
Analysis Batch: 17443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	548.1	*- *1	mg/Kg		55	70 - 130	34	20
Diesel Range Organics (Over C10-C28)	1000	760.3		mg/Kg		76	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-10392-A-1-C MS
Matrix: Solid
Analysis Batch: 17443

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	997	866.1		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	961.9		mg/Kg		96	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	64	S1-	70 - 130

Lab Sample ID: 880-10392-A-1-D MSD
Matrix: Solid
Analysis Batch: 17443

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	996	950.0		mg/Kg		91	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1141		mg/Kg		115	70 - 130	17	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	77		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: MB 880-17627/1-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17627

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 14:35	01/24/22 22:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 14:35	01/24/22 22:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 14:35	01/24/22 22:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			01/24/22 14:35	01/24/22 22:57	1
o-Terphenyl	116		70 - 130			01/24/22 14:35	01/24/22 22:57	1

Lab Sample ID: LCS 880-17627/2-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1134		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	117		70 - 130				
o-Terphenyl	120		70 - 130				

Lab Sample ID: LCSD 880-17627/3-A

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1426	*+ *1	mg/Kg		143	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1149		mg/Kg		115	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	126		70 - 130						
o-Terphenyl	133	S1+	70 - 130						

Lab Sample ID: 880-10483-A-21-F MS

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 *+ *1	997	1682	F1	mg/Kg		169	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1483	F1	mg/Kg		146	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: 880-10483-A-21-F MS

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17627

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-10483-A-21-G MSD

Matrix: Solid

Analysis Batch: 17551

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17627

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 *+ *1	996	1564	F1	mg/Kg		157	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1504	F1	mg/Kg		148	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	81		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17555/1-A

Matrix: Solid

Analysis Batch: 17726

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			01/26/22 10:14	1		

Lab Sample ID: LCS 880-17555/2-A

Matrix: Solid

Analysis Batch: 17726

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	250.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-17555/3-A

Matrix: Solid

Analysis Batch: 17726

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-10439-A-8-C MS

Matrix: Solid

Analysis Batch: 17726

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	18100	F1	4950	23170		mg/Kg		102	90 - 110	

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-10439-A-8-D MSD

Matrix: Solid

Analysis Batch: 17726

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	18100	F1	4950	23920	F1	mg/Kg		117	90 - 110	3	20

Lab Sample ID: MB 880-17558/1-A

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/28/22 02:39	1

Lab Sample ID: LCS 880-17558/2-A

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	265.3		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-17558/3-A

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	266.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 820-3188-A-51-C MS

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15300	F1	4950	19160	F1	mg/Kg		78	90 - 110

Lab Sample ID: 820-3188-A-51-D MSD

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15300	F1	4950	19130	F1	mg/Kg		78	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

GC VOA

Prep Batch: 17341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Total/NA	Solid	5035	
890-1850-2	FS02	Total/NA	Solid	5035	
890-1850-3	FS03	Total/NA	Solid	5035	
890-1850-4	FS04	Total/NA	Solid	5035	
890-1850-5	FS05	Total/NA	Solid	5035	
890-1850-6	SW01	Total/NA	Solid	5035	
890-1850-7	SW02	Total/NA	Solid	5035	
890-1850-8	SW03	Total/NA	Solid	5035	
MB 880-17341/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17341/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17341/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10410-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-10410-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Total/NA	Solid	8021B	17341
890-1850-2	FS02	Total/NA	Solid	8021B	17341
890-1850-3	FS03	Total/NA	Solid	8021B	17341
890-1850-4	FS04	Total/NA	Solid	8021B	17341
890-1850-5	FS05	Total/NA	Solid	8021B	17341
890-1850-6	SW01	Total/NA	Solid	8021B	17341
890-1850-7	SW02	Total/NA	Solid	8021B	17341
890-1850-8	SW03	Total/NA	Solid	8021B	17341
MB 880-17341/5-A	Method Blank	Total/NA	Solid	8021B	17341
LCS 880-17341/1-A	Lab Control Sample	Total/NA	Solid	8021B	17341
LCSD 880-17341/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17341
880-10410-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	17341
880-10410-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17341

Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Total/NA	Solid	Total BTEX	
890-1850-2	FS02	Total/NA	Solid	Total BTEX	
890-1850-3	FS03	Total/NA	Solid	Total BTEX	
890-1850-4	FS04	Total/NA	Solid	Total BTEX	
890-1850-5	FS05	Total/NA	Solid	Total BTEX	
890-1850-6	SW01	Total/NA	Solid	Total BTEX	
890-1850-7	SW02	Total/NA	Solid	Total BTEX	
890-1850-8	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 17333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Total/NA	Solid	8015NM Prep	
890-1850-2	FS02	Total/NA	Solid	8015NM Prep	
890-1850-3	FS03	Total/NA	Solid	8015NM Prep	
890-1850-4	FS04	Total/NA	Solid	8015NM Prep	
890-1850-5	FS05	Total/NA	Solid	8015NM Prep	
890-1850-6	SW01	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

GC Semi VOA (Continued)

Prep Batch: 17333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-7	SW02	Total/NA	Solid	8015NM Prep	
890-1850-8	SW03	Total/NA	Solid	8015NM Prep	
MB 880-17333/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17333/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10392-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10392-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Total/NA	Solid	8015B NM	17333
890-1850-2	FS02	Total/NA	Solid	8015B NM	17333
890-1850-3	FS03	Total/NA	Solid	8015B NM	17333
890-1850-4	FS04	Total/NA	Solid	8015B NM	17333
890-1850-5	FS05	Total/NA	Solid	8015B NM	17333
890-1850-6	SW01	Total/NA	Solid	8015B NM	17333
890-1850-7	SW02	Total/NA	Solid	8015B NM	17333
890-1850-8	SW03	Total/NA	Solid	8015B NM	17333
MB 880-17333/1-A	Method Blank	Total/NA	Solid	8015B NM	17333
LCS 880-17333/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17333
LCSD 880-17333/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17333
880-10392-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	17333
880-10392-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17333

Analysis Batch: 17483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Total/NA	Solid	8015 NM	
890-1850-2	FS02	Total/NA	Solid	8015 NM	
890-1850-3	FS03	Total/NA	Solid	8015 NM	
890-1850-4	FS04	Total/NA	Solid	8015 NM	
890-1850-5	FS05	Total/NA	Solid	8015 NM	
890-1850-6	SW01	Total/NA	Solid	8015 NM	
890-1850-7	SW02	Total/NA	Solid	8015 NM	
890-1850-8	SW03	Total/NA	Solid	8015 NM	

Analysis Batch: 17551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17627/1-A	Method Blank	Total/NA	Solid	8015B NM	17627
LCS 880-17627/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17627
LCSD 880-17627/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17627
880-10483-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17627
880-10483-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17627

Prep Batch: 17627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17627/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17627/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17627/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10483-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10483-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

HPLC/IC

Leach Batch: 17555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Soluble	Solid	DI Leach	
MB 880-17555/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17555/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17555/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10439-A-8-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10439-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 17558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-2	FS02	Soluble	Solid	DI Leach	
890-1850-3	FS03	Soluble	Solid	DI Leach	
890-1850-4	FS04	Soluble	Solid	DI Leach	
890-1850-5	FS05	Soluble	Solid	DI Leach	
890-1850-6	SW01	Soluble	Solid	DI Leach	
890-1850-7	SW02	Soluble	Solid	DI Leach	
890-1850-8	SW03	Soluble	Solid	DI Leach	
MB 880-17558/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17558/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17558/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-3188-A-51-C MS	Matrix Spike	Soluble	Solid	DI Leach	
820-3188-A-51-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-1	FS01	Soluble	Solid	300.0	17555
MB 880-17555/1-A	Method Blank	Soluble	Solid	300.0	17555
LCS 880-17555/2-A	Lab Control Sample	Soluble	Solid	300.0	17555
LCSD 880-17555/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17555
880-10439-A-8-C MS	Matrix Spike	Soluble	Solid	300.0	17555
880-10439-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17555

Analysis Batch: 17735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1850-2	FS02	Soluble	Solid	300.0	17558
890-1850-3	FS03	Soluble	Solid	300.0	17558
890-1850-4	FS04	Soluble	Solid	300.0	17558
890-1850-5	FS05	Soluble	Solid	300.0	17558
890-1850-6	SW01	Soluble	Solid	300.0	17558
890-1850-7	SW02	Soluble	Solid	300.0	17558
890-1850-8	SW03	Soluble	Solid	300.0	17558
MB 880-17558/1-A	Method Blank	Soluble	Solid	300.0	17558
LCS 880-17558/2-A	Lab Control Sample	Soluble	Solid	300.0	17558
LCSD 880-17558/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17558
820-3188-A-51-C MS	Matrix Spike	Soluble	Solid	300.0	17558
820-3188-A-51-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17558

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: FS01

Lab Sample ID: 890-1850-1

Date Collected: 01/18/22 10:30

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 17:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17555	01/24/22 10:16	CH	XEN MID
Soluble	Analysis	300.0		1			17726	01/26/22 16:10	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1850-2

Date Collected: 01/18/22 12:20

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 18:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/28/22 22:12	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1850-3

Date Collected: 01/19/22 12:05

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 18:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/28/22 22:19	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-1850-4

Date Collected: 01/19/22 12:07

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 18:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: FS04

Lab Sample ID: 890-1850-4

Date Collected: 01/19/22 12:07

Matrix: Solid

Date Received: 01/20/22 12:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/28/22 22:27	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-1850-5

Date Collected: 01/19/22 12:09

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 19:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/29/22 10:53	CH	XEN MID

Client Sample ID: SW01

Lab Sample ID: 890-1850-6

Date Collected: 01/18/22 12:15

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 19:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/29/22 11:00	CH	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-1850-7

Date Collected: 01/18/22 12:17

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 19:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 18:23	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Client Sample ID: SW02

Lab Sample ID: 890-1850-7

Date Collected: 01/18/22 12:17

Matrix: Solid

Date Received: 01/20/22 12:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/29/22 11:08	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-1850-8

Date Collected: 01/19/22 12:12

Matrix: Solid

Date Received: 01/20/22 12:32

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	17341	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/21/22 20:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17483	01/21/22 14:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17333	01/20/22 12:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17443	01/21/22 18:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		1			17735	01/29/22 11:15	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1850-1
SDG: 31403471.002 Task 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1850-1	FS01	Solid	01/18/22 10:30	01/20/22 12:32	8
890-1850-2	FS02	Solid	01/18/22 12:20	01/20/22 12:32	8
890-1850-3	FS03	Solid	01/19/22 12:05	01/20/22 12:32	8
890-1850-4	FS04	Solid	01/19/22 12:07	01/20/22 12:32	8
890-1850-5	FS05	Solid	01/19/22 12:09	01/20/22 12:32	8
890-1850-6	SW01	Solid	01/18/22 12:15	01/20/22 12:32	0 - 8
890-1850-7	SW02	Solid	01/18/22 12:17	01/20/22 12:32	0 - 8
890-1850-8	SW03	Solid	01/19/22 12:12	01/20/22 12:32	0 - 8



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill To: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments Program: ☐ PST ☐ RAP ☐ Crownfields ☐ RC ☐ Superfund ☐ State of Project: _____ Reporting Level: ☐ I ☐ II ☐ III ☐ T/UST ☐ RP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____	
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Project Name:	Trinity Burrus Abo Unit #26	Turn Around	ANALYSIS REQUEST	Work Order Notes
Project Number:	31403471.002 Task 2	Routine	CHLORIDES + BTEX	TPH 24 HR Rush
P.O. Number:		Rush: 24 HR TPH		CHLORIDES + BTEX
Sampler's Name:	Payton Benner	Due Date:		KUVTINE TAT

SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	16 / 1.4	Thermometer ID		
Received Inact:	Yes ☒ No ☐	Correction Factor:	-0.2	
Cooler Custody Seals:	Yes ☐ No ☒	Total Containers:		
Sample Custody Seals:	Yes ☐ No ☒			

Number of Containers
TPH (EPA 8015) 24 RUSH
BTEX (EPA 0-8021)
Chloride (EPA 300.0)

Barcode	890-1850 Chain of Custody
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Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Sample Comments
FS01	S	01/18/22	10:30	8	1	COMPOSITE
FS02	S	01/18/22	12:20	8	1	COMPOSITE
FS03	S	01/19/22	12:05	8	1	COMPOSITE
FS04	S	01/19/22	12:07	8	1	COMPOSITE
FS05	S	01/19/22	12:09	8	1	COMPOSITE
SW01	S	01/18/22	12:15	0-8	1	COMPOSITE
SW02	S	01/18/22	12:17	0-8	1	COMPOSITE
SW03	S	01/19/22	12:12	0-8	1	COMPOSITE

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
Circle Method(s) and Metal(s) to be analyzed	TC1P / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Payton Benner</i>	<i>Kalei Jennings</i>	1/20/22 12:32			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1850-1

SDG Number: 31403471.002 Task 2

Login Number: 1850

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins 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: 890-1850-1

SDG Number: 31403471.002 Task 2

Login Number: 1850

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/21/22 11:59 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1853-1

Laboratory Sample Delivery Group: 31403471.002 Task 2
Client Project/Site: Trinity Burrus Abo Unit #26

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
1/26/2022 3:57:26 PM

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

LINKS

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

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

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	33

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Job ID: 890-1853-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1853-1****Receipt**

The samples were received on 1/20/2022 3:40 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 2.4°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS09 (890-1853-4) and SW05 (890-1853-9). 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 880-17293 and analytical batch 880-17526 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17533 and analytical batch 880-17546 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS06 (890-1853-1), FS09 (890-1853-4), FS10 (890-1853-5), SW05 (890-1853-9), (LCS 880-17533/2-A), (LCSD 880-17533/3-A) and (MB 880-17533/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17733 and analytical batch 880-17662 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS06

Lab Sample ID: 890-1853-1

Date Collected: 01/20/22 10:45

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 18:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	01/24/22 07:30	01/24/22 18:20	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/24/22 07:30	01/24/22 18:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/24/22 16:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9	mg/Kg		01/24/22 09:27	01/24/22 14:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		01/24/22 09:27	01/24/22 14:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	01/24/22 09:27	01/24/22 14:21	1
o-Terphenyl	145	S1+	70 - 130	01/24/22 09:27	01/24/22 14:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.00	mg/Kg			01/24/22 19:11	1

Client Sample ID: FS07

Lab Sample ID: 890-1853-2

Date Collected: 01/20/22 10:48

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 18:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 18:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/24/22 07:30	01/24/22 18:48	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS07

Lab Sample ID: 890-1853-2

Date Collected: 01/20/22 10:48

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	01/24/22 07:30	01/24/22 18:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/24/22 16:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 01:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 01:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			01/25/22 15:06	01/26/22 01:09	1
o-Terphenyl	122		70 - 130			01/25/22 15:06	01/26/22 01:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.7		4.98	mg/Kg			01/24/22 19:46	1

Client Sample ID: FS08

Lab Sample ID: 890-1853-3

Date Collected: 01/20/22 10:50

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/24/22 07:30	01/24/22 19:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/24/22 07:30	01/24/22 19:16	1
Ethylbenzene	0.00446		0.00201	mg/Kg		01/24/22 07:30	01/24/22 19:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/24/22 07:30	01/24/22 19:16	1
o-Xylene	0.0121		0.00201	mg/Kg		01/24/22 07:30	01/24/22 19:16	1
Xylenes, Total	0.0121		0.00402	mg/Kg		01/24/22 07:30	01/24/22 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/24/22 07:30	01/24/22 19:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/24/22 07:30	01/24/22 19:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0166		0.00402	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/25/22 13:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS08

Lab Sample ID: 890-1853-3

Date Collected: 01/20/22 10:50

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			01/25/22 15:06	01/26/22 01:31	1
o-Terphenyl	100		70 - 130			01/25/22 15:06	01/26/22 01:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		4.95	mg/Kg			01/24/22 19:58	1

Client Sample ID: FS09

Lab Sample ID: 890-1853-4

Date Collected: 01/20/22 10:53

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 19:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 19:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 19:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 19:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 19:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	237	S1+	70 - 130			01/24/22 07:30	01/24/22 19:44	1
1,4-Difluorobenzene (Surr)	111		70 - 130			01/24/22 07:30	01/24/22 19:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/25/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 16:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 16:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			01/24/22 09:27	01/24/22 16:07	1
o-Terphenyl	135	S1+	70 - 130			01/24/22 09:27	01/24/22 16:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS09

Lab Sample ID: 890-1853-4

Date Collected: 01/20/22 10:53

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		5.05	mg/Kg			01/24/22 20:34	1

Client Sample ID: FS10

Lab Sample ID: 890-1853-5

Date Collected: 01/20/22 10:55

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 20:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 20:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 20:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/24/22 07:30	01/24/22 20:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 20:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/24/22 07:30	01/24/22 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/24/22 07:30	01/24/22 20:11	1
1,4-Difluorobenzene (Surr)	93		70 - 130			01/24/22 07:30	01/24/22 20:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/25/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/24/22 16:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/24/22 16:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/24/22 16:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			01/24/22 09:27	01/24/22 16:29	1
o-Terphenyl	136	S1+	70 - 130			01/24/22 09:27	01/24/22 16:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.24		4.97	mg/Kg			01/24/22 20:46	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS11

Lab Sample ID: 890-1853-6

Date Collected: 01/20/22 10:57

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 20:39	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 20:39	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 20:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/24/22 07:30	01/24/22 20:39	1
o-Xylene	0.00210		0.00198	mg/Kg		01/24/22 07:30	01/24/22 20:39	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/24/22 07:30	01/24/22 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	01/24/22 07:30	01/24/22 20:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/24/22 07:30	01/24/22 20:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		49.9	mg/Kg			01/25/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/25/22 15:06	01/26/22 01:53	1
Diesel Range Organics (Over C10-C28)	124		49.9	mg/Kg		01/25/22 15:06	01/26/22 01:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/25/22 15:06	01/26/22 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	01/25/22 15:06	01/26/22 01:53	1
o-Terphenyl	109		70 - 130	01/25/22 15:06	01/26/22 01:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.5		4.96	mg/Kg			01/24/22 20:57	1

Client Sample ID: FS12

Lab Sample ID: 890-1853-7

Date Collected: 01/20/22 11:00

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/24/22 07:30	01/24/22 21:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/24/22 07:30	01/24/22 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/24/22 07:30	01/24/22 21:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS12

Lab Sample ID: 890-1853-7

Date Collected: 01/20/22 11:00

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	01/24/22 07:30	01/24/22 21:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.4		50.0	mg/Kg			01/25/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 02:16	1
Diesel Range Organics (Over C10-C28)	65.4		50.0	mg/Kg		01/25/22 15:06	01/26/22 02:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/26/22 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			01/25/22 15:06	01/26/22 02:16	1
o-Terphenyl	114		70 - 130			01/25/22 15:06	01/26/22 02:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.5		5.00	mg/Kg			01/24/22 21:09	1

Client Sample ID: SW04

Lab Sample ID: 890-1853-8

Date Collected: 01/20/22 11:40

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/24/22 07:30	01/24/22 21:35	1
o-Xylene	0.00562		0.00198	mg/Kg		01/24/22 07:30	01/24/22 21:35	1
Xylenes, Total	0.00562		0.00396	mg/Kg		01/24/22 07:30	01/24/22 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	01/24/22 07:30	01/24/22 21:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/24/22 07:30	01/24/22 21:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00562		0.00396	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	139		49.9	mg/Kg			01/25/22 13:10	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: SW04

Lab Sample ID: 890-1853-8

Date Collected: 01/20/22 11:40

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 0 - 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/25/22 15:06	01/26/22 02:38	1
Diesel Range Organics (Over C10-C28)	139		49.9	mg/Kg		01/25/22 15:06	01/26/22 02:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/25/22 15:06	01/26/22 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			01/25/22 15:06	01/26/22 02:38	1
o-Terphenyl	111		70 - 130			01/25/22 15:06	01/26/22 02:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	405		4.98	mg/Kg			01/24/22 21:21	1

Client Sample ID: SW05

Lab Sample ID: 890-1853-9

Date Collected: 01/20/22 11:44

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 22:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 22:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			01/24/22 07:30	01/24/22 22:03	1
1,4-Difluorobenzene (Surr)	114		70 - 130			01/24/22 07:30	01/24/22 22:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.9		50.0	mg/Kg			01/25/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/24/22 17:55	1
Diesel Range Organics (Over C10-C28)	54.9		50.0	mg/Kg		01/24/22 09:27	01/24/22 17:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/24/22 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			01/24/22 09:27	01/24/22 17:55	1
o-Terphenyl	132	S1+	70 - 130			01/24/22 09:27	01/24/22 17:55	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: SW05

Lab Sample ID: 890-1853-9

Date Collected: 01/20/22 11:44

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		5.00	mg/Kg			01/24/22 21:33	1

Client Sample ID: SW06

Lab Sample ID: 890-1853-10

Date Collected: 01/20/22 11:48

Matrix: Solid

Date Received: 01/20/22 15:40

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 22:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/22 07:30	01/24/22 22:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/22 07:30	01/24/22 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			01/24/22 07:30	01/24/22 22:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/24/22 07:30	01/24/22 22:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/25/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/22 09:27	01/24/22 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			01/24/22 09:27	01/24/22 18:16	1
o-Terphenyl	128		70 - 130			01/24/22 09:27	01/24/22 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		5.01	mg/Kg			01/24/22 21:45	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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)
890-1846-A-1-G MSD	Matrix Spike Duplicate	103	113
890-1846-A-1-M MS	Matrix Spike	113	109
890-1853-1	FS06	131 S1+	93
890-1853-2	FS07	112	97
890-1853-3	FS08	123	95
890-1853-4	FS09	237 S1+	111
890-1853-5	FS10	113	93
890-1853-6	FS11	125	99
890-1853-7	FS12	96	101
890-1853-8	SW04	132 S1+	95
890-1853-9	SW05	143 S1+	114
890-1853-10	SW06	116	105
LCS 880-17293/1-A	Lab Control Sample	100	107
LCSD 880-17293/2-A	Lab Control Sample Dup	101	108
MB 880-17293/5-A	Method Blank	71	93
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)
890-1853-1	FS06	112	145 S1+
890-1853-1 MS	FS06	105	111
890-1853-1 MSD	FS06	103	109
890-1853-2	FS07	105	122
890-1853-3	FS08	92	100
890-1853-4	FS09	107	135 S1+
890-1853-5	FS10	106	136 S1+
890-1853-6	FS11	98	109
890-1853-7	FS12	102	114
890-1853-8	SW04	101	111
890-1853-9	SW05	107	132 S1+
890-1853-10	SW06	104	128
890-1857-A-1-F MS	Matrix Spike	90	86
890-1857-A-1-G MSD	Matrix Spike Duplicate	91	87
LCS 880-17533/2-A	Lab Control Sample	130	145 S1+
LCS 880-17733/2-A	Lab Control Sample	106	114
LCSD 880-17533/3-A	Lab Control Sample Dup	121	137 S1+
LCSD 880-17733/3-A	Lab Control Sample Dup	121	127
MB 880-17533/1-A	Method Blank	115	145 S1+
MB 880-17733/1-A	Method Blank	90	101
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17293/5-A

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17293

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/22 07:30	01/24/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/24/22 07:30	01/24/22 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/24/22 07:30	01/24/22 11:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/24/22 07:30	01/24/22 11:47	1

Lab Sample ID: LCS 880-17293/1-A

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1132		mg/Kg		113	70 - 130
Toluene	0.100	0.09368		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09517		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2093		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-17293/2-A

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	1	35
Toluene	0.100	0.09396		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.09423		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1846-A-1-G MSD

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.09038		mg/Kg		91	70 - 130	10	35
Toluene	<0.00199	U	0.0998	0.07049		mg/Kg		71	70 - 130	15	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: 890-1846-A-1-G MSD

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00199	U F1	0.0998	0.06561	F1	mg/Kg		66	70 - 130	12	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1433		mg/Kg		72	70 - 130	11	35
o-Xylene	<0.00199	U	0.0998	0.07637		mg/Kg		77	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-1846-A-1-M MS

Matrix: Solid

Analysis Batch: 17526

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0990	0.1003		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0990	0.08198		mg/Kg		83	70 - 130
Ethylbenzene	<0.00199	U F1	0.0990	0.07388		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1599		mg/Kg		81	70 - 130
o-Xylene	<0.00199	U	0.0990	0.08914		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-17533/1-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17533

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/25/22 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/25/22 08:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/24/22 09:27	01/25/22 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	01/24/22 09:27	01/25/22 08:27	1
o-Terphenyl	145	S1+	70 - 130	01/24/22 09:27	01/25/22 08:27	1

Lab Sample ID: LCS 880-17533/2-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	845.8		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1254		mg/Kg		125	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: LCS 880-17533/2-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17533

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: LCSD 880-17533/3-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17533

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	803.5		mg/Kg		80	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1190		mg/Kg		119	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	137	S1+	70 - 130

Lab Sample ID: 890-1853-1 MS

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 17533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1510	F1	mg/Kg		150	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1771	F1	mg/Kg		173	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 890-1853-1 MSD

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: FS06

Prep Type: Total/NA

Prep Batch: 17533

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1341	F1	mg/Kg		133	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1714	F1	mg/Kg		168	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	109		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: MB 880-17733/1-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17733

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/25/22 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/25/22 21:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/25/22 15:06	01/25/22 21:23	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			01/25/22 15:06	01/25/22 21:23	1
o-Terphenyl	101		70 - 130			01/25/22 15:06	01/25/22 21:23	1

Lab Sample ID: LCS 880-17733/2-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	948.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1021		mg/Kg		102	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	106		70 - 130				
o-Terphenyl	114		70 - 130				

Lab Sample ID: LCSD 880-17733/3-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	996.4		mg/Kg		100	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1102		mg/Kg		110	70 - 130	8	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	121		70 - 130						
o-Terphenyl	127		70 - 130						

Lab Sample ID: 890-1857-A-1-F MS

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1370	F1	mg/Kg		137	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1360	F1	mg/Kg		134	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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

Lab Sample ID: 890-1857-A-1-F MS

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17733

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-1857-A-1-G MSD

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17733

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1375	F1	mg/Kg		138	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1357	F1	mg/Kg		134	70 - 130	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	87		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17550/1-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			01/24/22 15:49	1		

Lab Sample ID: LCS 880-17550/2-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	245.9		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-17550/3-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	245.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1853-1 MS

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: FS06

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	12.9		250	262.5		mg/Kg		100	90 - 110		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1853-1 MSD									Client Sample ID: FS06		
Matrix: Solid									Prep Type: Soluble		
Analysis Batch: 17639											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12.9		250	262.5		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

GC VOA

Prep Batch: 17293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Total/NA	Solid	5035	
890-1853-2	FS07	Total/NA	Solid	5035	
890-1853-3	FS08	Total/NA	Solid	5035	
890-1853-4	FS09	Total/NA	Solid	5035	
890-1853-5	FS10	Total/NA	Solid	5035	
890-1853-6	FS11	Total/NA	Solid	5035	
890-1853-7	FS12	Total/NA	Solid	5035	
890-1853-8	SW04	Total/NA	Solid	5035	
890-1853-9	SW05	Total/NA	Solid	5035	
890-1853-10	SW06	Total/NA	Solid	5035	
MB 880-17293/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17293/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17293/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1846-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1846-A-1-M MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 17526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Total/NA	Solid	8021B	17293
890-1853-2	FS07	Total/NA	Solid	8021B	17293
890-1853-3	FS08	Total/NA	Solid	8021B	17293
890-1853-4	FS09	Total/NA	Solid	8021B	17293
890-1853-5	FS10	Total/NA	Solid	8021B	17293
890-1853-6	FS11	Total/NA	Solid	8021B	17293
890-1853-7	FS12	Total/NA	Solid	8021B	17293
890-1853-8	SW04	Total/NA	Solid	8021B	17293
890-1853-9	SW05	Total/NA	Solid	8021B	17293
890-1853-10	SW06	Total/NA	Solid	8021B	17293
MB 880-17293/5-A	Method Blank	Total/NA	Solid	8021B	17293
LCS 880-17293/1-A	Lab Control Sample	Total/NA	Solid	8021B	17293
LCSD 880-17293/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17293
890-1846-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17293
890-1846-A-1-M MS	Matrix Spike	Total/NA	Solid	8021B	17293

Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Total/NA	Solid	Total BTEX	
890-1853-2	FS07	Total/NA	Solid	Total BTEX	
890-1853-3	FS08	Total/NA	Solid	Total BTEX	
890-1853-4	FS09	Total/NA	Solid	Total BTEX	
890-1853-5	FS10	Total/NA	Solid	Total BTEX	
890-1853-6	FS11	Total/NA	Solid	Total BTEX	
890-1853-7	FS12	Total/NA	Solid	Total BTEX	
890-1853-8	SW04	Total/NA	Solid	Total BTEX	
890-1853-9	SW05	Total/NA	Solid	Total BTEX	
890-1853-10	SW06	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

GC Semi VOA

Prep Batch: 17533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Total/NA	Solid	8015NM Prep	
890-1853-4	FS09	Total/NA	Solid	8015NM Prep	
890-1853-5	FS10	Total/NA	Solid	8015NM Prep	
890-1853-9	SW05	Total/NA	Solid	8015NM Prep	
890-1853-10	SW06	Total/NA	Solid	8015NM Prep	
MB 880-17533/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17533/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17533/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1853-1 MS	FS06	Total/NA	Solid	8015NM Prep	
890-1853-1 MSD	FS06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Total/NA	Solid	8015B NM	17533
890-1853-4	FS09	Total/NA	Solid	8015B NM	17533
890-1853-5	FS10	Total/NA	Solid	8015B NM	17533
890-1853-9	SW05	Total/NA	Solid	8015B NM	17533
890-1853-10	SW06	Total/NA	Solid	8015B NM	17533
MB 880-17533/1-A	Method Blank	Total/NA	Solid	8015B NM	17533
LCS 880-17533/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17533
LCSD 880-17533/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17533
890-1853-1 MS	FS06	Total/NA	Solid	8015B NM	17533
890-1853-1 MSD	FS06	Total/NA	Solid	8015B NM	17533

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Total/NA	Solid	8015 NM	
890-1853-2	FS07	Total/NA	Solid	8015 NM	
890-1853-3	FS08	Total/NA	Solid	8015 NM	
890-1853-4	FS09	Total/NA	Solid	8015 NM	
890-1853-5	FS10	Total/NA	Solid	8015 NM	
890-1853-6	FS11	Total/NA	Solid	8015 NM	
890-1853-7	FS12	Total/NA	Solid	8015 NM	
890-1853-8	SW04	Total/NA	Solid	8015 NM	
890-1853-9	SW05	Total/NA	Solid	8015 NM	
890-1853-10	SW06	Total/NA	Solid	8015 NM	

Analysis Batch: 17662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-2	FS07	Total/NA	Solid	8015B NM	17733
890-1853-3	FS08	Total/NA	Solid	8015B NM	17733
890-1853-6	FS11	Total/NA	Solid	8015B NM	17733
890-1853-7	FS12	Total/NA	Solid	8015B NM	17733
890-1853-8	SW04	Total/NA	Solid	8015B NM	17733
MB 880-17733/1-A	Method Blank	Total/NA	Solid	8015B NM	17733
LCS 880-17733/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17733
LCSD 880-17733/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17733
890-1857-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17733
890-1857-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17733

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

GC Semi VOA

Prep Batch: 17733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-2	FS07	Total/NA	Solid	8015NM Prep	
890-1853-3	FS08	Total/NA	Solid	8015NM Prep	
890-1853-6	FS11	Total/NA	Solid	8015NM Prep	
890-1853-7	FS12	Total/NA	Solid	8015NM Prep	
890-1853-8	SW04	Total/NA	Solid	8015NM Prep	
MB 880-17733/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17733/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17733/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1857-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1857-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 17550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Soluble	Solid	DI Leach	
890-1853-2	FS07	Soluble	Solid	DI Leach	
890-1853-3	FS08	Soluble	Solid	DI Leach	
890-1853-4	FS09	Soluble	Solid	DI Leach	
890-1853-5	FS10	Soluble	Solid	DI Leach	
890-1853-6	FS11	Soluble	Solid	DI Leach	
890-1853-7	FS12	Soluble	Solid	DI Leach	
890-1853-8	SW04	Soluble	Solid	DI Leach	
890-1853-9	SW05	Soluble	Solid	DI Leach	
890-1853-10	SW06	Soluble	Solid	DI Leach	
MB 880-17550/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17550/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17550/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1853-1 MS	FS06	Soluble	Solid	DI Leach	
890-1853-1 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 17639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1853-1	FS06	Soluble	Solid	300.0	17550
890-1853-2	FS07	Soluble	Solid	300.0	17550
890-1853-3	FS08	Soluble	Solid	300.0	17550
890-1853-4	FS09	Soluble	Solid	300.0	17550
890-1853-5	FS10	Soluble	Solid	300.0	17550
890-1853-6	FS11	Soluble	Solid	300.0	17550
890-1853-7	FS12	Soluble	Solid	300.0	17550
890-1853-8	SW04	Soluble	Solid	300.0	17550
890-1853-9	SW05	Soluble	Solid	300.0	17550
890-1853-10	SW06	Soluble	Solid	300.0	17550
MB 880-17550/1-A	Method Blank	Soluble	Solid	300.0	17550
LCS 880-17550/2-A	Lab Control Sample	Soluble	Solid	300.0	17550
LCSD 880-17550/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17550
890-1853-1 MS	FS06	Soluble	Solid	300.0	17550
890-1853-1 MSD	FS06	Soluble	Solid	300.0	17550

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS06

Lab Sample ID: 890-1853-1

Date Collected: 01/20/22 10:45

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 18:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17533	01/24/22 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/24/22 14:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 19:11	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-1853-2

Date Collected: 01/20/22 10:48

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 18:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17733	01/25/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/26/22 01:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 19:46	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-1853-3

Date Collected: 01/20/22 10:50

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 19:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17733	01/25/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/26/22 01:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 19:58	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-1853-4

Date Collected: 01/20/22 10:53

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 19:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS09

Lab Sample ID: 890-1853-4

Date Collected: 01/20/22 10:53

Matrix: Solid

Date Received: 01/20/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17533	01/24/22 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/24/22 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 20:34	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-1853-5

Date Collected: 01/20/22 10:55

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 20:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17533	01/24/22 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/24/22 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 20:46	CH	XEN MID

Client Sample ID: FS11

Lab Sample ID: 890-1853-6

Date Collected: 01/20/22 10:57

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 20:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17733	01/25/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/26/22 01:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 20:57	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-1853-7

Date Collected: 01/20/22 11:00

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 21:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17733	01/25/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/26/22 02:16	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Client Sample ID: FS12

Lab Sample ID: 890-1853-7

Date Collected: 01/20/22 11:00

Matrix: Solid

Date Received: 01/20/22 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 21:09	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-1853-8

Date Collected: 01/20/22 11:40

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 21:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17733	01/25/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/26/22 02:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 21:21	CH	XEN MID

Client Sample ID: SW05

Lab Sample ID: 890-1853-9

Date Collected: 01/20/22 11:44

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 22:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17533	01/24/22 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/24/22 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 21:33	CH	XEN MID

Client Sample ID: SW06

Lab Sample ID: 890-1853-10

Date Collected: 01/20/22 11:48

Matrix: Solid

Date Received: 01/20/22 15:40

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	17293	01/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17526	01/24/22 22:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17533	01/24/22 09:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/24/22 18:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	17550	01/24/22 10:02	CH	XEN MID
Soluble	Analysis	300.0		1			17639	01/24/22 21:45	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
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Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1853-1
SDG: 31403471.002 Task 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1853-1	FS06	Solid	01/20/22 10:45	01/20/22 15:40	4
890-1853-2	FS07	Solid	01/20/22 10:48	01/20/22 15:40	4
890-1853-3	FS08	Solid	01/20/22 10:50	01/20/22 15:40	4
890-1853-4	FS09	Solid	01/20/22 10:53	01/20/22 15:40	4
890-1853-5	FS10	Solid	01/20/22 10:55	01/20/22 15:40	4
890-1853-6	FS11	Solid	01/20/22 10:57	01/20/22 15:40	4
890-1853-7	FS12	Solid	01/20/22 11:00	01/20/22 15:40	4
890-1853-8	SW04	Solid	01/20/22 11:40	01/20/22 15:40	0 - 8
890-1853-9	SW05	Solid	01/20/22 11:44	01/20/22 15:40	0 - 4
890-1853-10	SW06	Solid	01/20/22 11:48	01/20/22 15:40	0 - 4



Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 365-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Program: UST/PST	☐ RP ☐ Growfields ☐ RC ☐ Superfund
State of Project:	
Reporting Level II	☐ Level III ☐ T/UST ☐ RP ☐ Level IV
Deliverables: EDD	☐ ADaPT ☐ Other:

Project Name:	Trinity Burrus Abo Unit #26	Turn Around	
Project Number:	31403471.002 Task 2	Routine	☐
P.O. Number:		Rush: 3 DAY	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	26.6/26.4	Thermometer ID				
Received Inact:	Yes	No	Correction Factor: -0.2			
Cooler Custody Seals:	Yes	No	Total Containers:			
Sample Custody Seals:	Yes	No				



890-1853 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
FS06	S	01/20/22	10:45	4	1	X	X	X		Due WEDNESDAY 01-26-22
FS07	S	01/20/22	10:48	4	1	X	X	X		
FS08	S	01/20/22	10:50	4	1	X	X	X		
FS09	S	01/20/22	10:53	4	1	X	X	X		
FS10	S	01/20/22	10:55	4	1	X	X	X		
FS11	S	01/20/22	10:57	4	1	X	X	X		
FS12	S	01/20/22	11:00	4	1	X	X	X		
SW04	S	01/20/22	11:40	0-8	1	X	X	X		
SW05	S	01/20/22	11:44	0-4	1	X	X	X		
SW06	S	01/20/22	11:48	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	SiO2	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	Ca	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 Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
phennur	Cur Gaf	1-20-22 1540			

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)						Sampler:	Lab PM:	COC No:								
Client Contact:						Kramer, Jessica	Carrier Tracking No(s):	890-595-1								
Shipping/Receiving						E-Mail: jessica.kramer@eurofinset.com	State of Origin:									
Company: Eurofins Environment Testing South Cent'r						Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		New Mexico								
Address: 1211 W. Florida Ave.						Due Date Requested: 1/26/2022										
City: Midland						TAT Requested (days):										
State, Zip: TX, 79701						PO #:										
Phone: 432-704-5440(Tel)						WQ #:										
Email:						Project #: 89000048										
Project Name: Trinity Burrus Abo Unit #26						SSOW#:										
Site:																
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (w-water, s-solid, o-wasteoil, B-Tissue, AsAb)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:		
FS06 (890-1853-1)						1/20/22	10:45	Mountain	Solid	X	X	X	X	X	1	
FS07 (890-1853-2)						1/20/22	10:48	Mountain	Solid	X	X	X	X	X	1	
FS08 (890-1853-3)						1/20/22	10:50	Mountain	Solid	X	X	X	X	X	1	
FS09 (890-1853-4)						1/20/22	10:53	Mountain	Solid	X	X	X	X	X	1	
FS10 (890-1853-5)						1/20/22	10:55	Mountain	Solid	X	X	X	X	X	1	
FS11 (890-1853-6)						1/20/22	10:57	Mountain	Solid	X	X	X	X	X	1	
FS12 (890-1853-7)						1/20/22	11:00	Mountain	Solid	X	X	X	X	X	1	
SW04 (890-1853-8)						1/20/22	11:40	Mountain	Solid	X	X	X	X	X	1	
SW05 (890-1853-9)						1/20/22	11:44	Mountain	Solid	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testmatrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____																
Relinquished by: _____ Date/Time: 1/21/22 Company: _____ Received by: _____ Date/Time: 1/24/22 8:30 Company: XEROX																
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____																
Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____																
A Yes Δ No																

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Environment Testing
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1853-1

SDG Number: 31403471.002 Task 2

Login Number: 1853

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins 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: 890-1853-1

SDG Number: 31403471.002 Task 2

Login Number: 1853

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Midland

List Creation: 01/24/22 08:29 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 Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1880-1

Laboratory Sample Delivery Group: 31403471.002 task 2
Client Project/Site: Trinity Burrus Abo Unit #26

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
2/7/2022 8:17:53 AM

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: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1880-1
SDG: 31403471.002 task 2

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Job ID: 890-1880-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1880-1****Receipt**

The samples were received on 1/27/2022 11:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS11A (890-1880-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-17976/3-A), (MB 880-17976/1-A) and (880-10654-A-41-E MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18214 and analytical batch 880-18520 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Client Sample ID: FS11A

Lab Sample ID: 890-1880-1

Date Collected: 01/27/22 09:10

Matrix: Solid

Date Received: 01/27/22 11:37

Sample Depth: 4.15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/31/22 07:24	01/31/22 15:31	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/31/22 07:24	01/31/22 15:31	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/31/22 07:24	01/31/22 15:31	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/31/22 07:24	01/31/22 15:31	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/31/22 07:24	01/31/22 15:31	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/31/22 07:24	01/31/22 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	01/31/22 07:24	01/31/22 15:31	1
1,4-Difluorobenzene (Surr)	123		70 - 130	01/31/22 07:24	01/31/22 15:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.7		49.9	mg/Kg			01/27/22 16:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/28/22 08:29	01/28/22 13:51	1
Diesel Range Organics (Over C10-C28)	97.7		49.9	mg/Kg		01/28/22 08:29	01/28/22 13:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/28/22 08:29	01/28/22 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	01/28/22 08:29	01/28/22 13:51	1
o-Terphenyl	90		70 - 130	01/28/22 08:29	01/28/22 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		5.01	mg/Kg			02/03/22 19:20	1

Client Sample ID: SW01A

Lab Sample ID: 890-1880-2

Date Collected: 01/27/22 09:12

Matrix: Solid

Date Received: 01/27/22 11:37

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 15:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 15:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 15:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 15:51	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/31/22 07:24	01/31/22 15:51	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/31/22 07:24	01/31/22 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/31/22 07:24	01/31/22 15:51	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Client Sample ID: SW01A

Lab Sample ID: 890-1880-2

Date Collected: 01/27/22 09:12

Matrix: Solid

Date Received: 01/27/22 11:37

Sample Depth: 0 - 8

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	01/31/22 07:24	01/31/22 15:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	691		50.0	mg/Kg			01/27/22 16:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 14:14	1
Diesel Range Organics (Over C10-C28)	691		50.0	mg/Kg		01/28/22 08:29	01/28/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			01/28/22 08:29	01/28/22 14:14	1
o-Terphenyl	104		70 - 130			01/28/22 08:29	01/28/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1450		24.9	mg/Kg			02/03/22 19:32	5

Client Sample ID: SW03A

Lab Sample ID: 890-1880-3

Date Collected: 01/27/22 09:15

Matrix: Solid

Date Received: 01/27/22 11:37

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 16:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 16:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 16:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/31/22 07:24	01/31/22 16:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 16:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/31/22 07:24	01/31/22 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/31/22 07:24	01/31/22 16:12	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/31/22 07:24	01/31/22 16:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	530		50.0	mg/Kg			01/27/22 16:17	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Client Sample ID: SW03A

Lab Sample ID: 890-1880-3

Date Collected: 01/27/22 09:15

Matrix: Solid

Date Received: 01/27/22 11:37

Sample Depth: 0 - 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 14:35	1
Diesel Range Organics (Over C10-C28)	530		50.0	mg/Kg		01/28/22 08:29	01/28/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			01/28/22 08:29	01/28/22 14:35	1
o-Terphenyl	92		70 - 130			01/28/22 08:29	01/28/22 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2460		25.0	mg/Kg			02/03/22 19:44	5

Client Sample ID: SW04A

Lab Sample ID: 890-1880-4

Date Collected: 01/27/22 09:18

Matrix: Solid

Date Received: 01/27/22 11:37

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 16:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 16:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 16:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/31/22 07:24	01/31/22 16:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 16:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/31/22 07:24	01/31/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			01/31/22 07:24	01/31/22 16:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/31/22 07:24	01/31/22 16:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	491		50.0	mg/Kg			01/27/22 16:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 14:58	1
Diesel Range Organics (Over C10-C28)	491		50.0	mg/Kg		01/28/22 08:29	01/28/22 14:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			01/28/22 08:29	01/28/22 14:58	1
o-Terphenyl	94		70 - 130			01/28/22 08:29	01/28/22 14:58	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Client Sample ID: SW04A
Date Collected: 01/27/22 09:18
Date Received: 01/27/22 11:37
Sample Depth: 0 - 8

Lab Sample ID: 890-1880-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	980		4.99	mg/Kg			02/03/22 19:56	1	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

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)
880-10720-A-1-E MS	Matrix Spike	102	103
880-10720-A-1-F MSD	Matrix Spike Duplicate	96	97
890-1880-1	FS11A	164 S1+	123
890-1880-2	SW01A	110	109
890-1880-3	SW03A	126	107
890-1880-4	SW04A	92	102
LCS 880-18098/1-A	Lab Control Sample	102	101
LCSD 880-18098/2-A	Lab Control Sample Dup	98	99
MB 880-18098/5-A	Method Blank	98	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-10654-A-41-E MS	Matrix Spike	68 S1-	63 S1-
880-10654-A-41-F MSD	Matrix Spike Duplicate	77	72
890-1880-1	FS11A	81	90
890-1880-2	SW01A	96	104
890-1880-3	SW03A	87	92
890-1880-4	SW04A	86	94
LCS 880-17976/2-A	Lab Control Sample	117	123
LCSD 880-17976/3-A	Lab Control Sample Dup	133 S1+	140 S1+
MB 880-17976/1-A	Method Blank	126	147 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18098/5-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18098

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/31/22 07:24	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/31/22 07:24	01/31/22 10:43	1

Lab Sample ID: LCS 880-18098/1-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07904		mg/Kg		79	70 - 130
Toluene	0.100	0.07722		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.07702		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1584		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07663		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-18098/2-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08134		mg/Kg		81	70 - 130	3	35
Toluene	0.100	0.07230		mg/Kg		72	70 - 130	7	35
Ethylbenzene	0.100	0.07478		mg/Kg		75	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1517		mg/Kg		76	70 - 130	4	35
o-Xylene	0.100	0.07439		mg/Kg		74	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.08526		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.100	0.08078		mg/Kg		81	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

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

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1659		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08128		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-10720-A-1-F MSD

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08653		mg/Kg		87	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.08058		mg/Kg		81	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.07884		mg/Kg		79	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1589		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07941		mg/Kg		80	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-17976/1-A

Matrix: Solid

Analysis Batch: 17979

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17976

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 11:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 11:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/22 08:29	01/28/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	01/28/22 08:29	01/28/22 11:31	1
o-Terphenyl	147	S1+	70 - 130	01/28/22 08:29	01/28/22 11:31	1

Lab Sample ID: LCS 880-17976/2-A

Matrix: Solid

Analysis Batch: 17979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	789.1		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		105	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

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

Lab Sample ID: LCS 880-17976/2-A
Matrix: Solid
Analysis Batch: 17979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17976

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: LCSD 880-17976/3-A
Matrix: Solid
Analysis Batch: 17979

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	862.9		mg/Kg		86	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1155		mg/Kg		115	70 - 130	10	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	140	S1+	70 - 130

Lab Sample ID: 880-10654-A-41-E MS
Matrix: Solid
Analysis Batch: 17979

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	978.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1075		mg/Kg		105	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	63	S1-	70 - 130

Lab Sample ID: 880-10654-A-41-F MSD
Matrix: Solid
Analysis Batch: 17979

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1090		mg/Kg		106	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1231		mg/Kg		121	70 - 130	14	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	72		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18214/1-A

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/03/22 13:00	1

Lab Sample ID: LCS 880-18214/2-A

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-18214/3-A

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.1		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 880-10694-A-1-H MS

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.9		252	282.3		mg/Kg		103	90 - 110

Lab Sample ID: 880-10694-A-1-I MSD

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.9		252	277.2		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 890-1877-A-5-D MS

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	470	F1	1240	1775		mg/Kg		105	90 - 110

Lab Sample ID: 890-1877-A-5-E MSD

Matrix: Solid

Analysis Batch: 18520

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	470	F1	1240	1895	F1	mg/Kg		115	90 - 110	7	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

GC VOA

Prep Batch: 18098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Total/NA	Solid	5035	
890-1880-2	SW01A	Total/NA	Solid	5035	
890-1880-3	SW03A	Total/NA	Solid	5035	
890-1880-4	SW04A	Total/NA	Solid	5035	
MB 880-18098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Total/NA	Solid	8021B	18098
890-1880-2	SW01A	Total/NA	Solid	8021B	18098
890-1880-3	SW03A	Total/NA	Solid	8021B	18098
890-1880-4	SW04A	Total/NA	Solid	8021B	18098
MB 880-18098/5-A	Method Blank	Total/NA	Solid	8021B	18098
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	8021B	18098
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18098
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	18098
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18098

Analysis Batch: 18428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Total/NA	Solid	Total BTEX	
890-1880-2	SW01A	Total/NA	Solid	Total BTEX	
890-1880-3	SW03A	Total/NA	Solid	Total BTEX	
890-1880-4	SW04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Total/NA	Solid	8015 NM	
890-1880-2	SW01A	Total/NA	Solid	8015 NM	
890-1880-3	SW03A	Total/NA	Solid	8015 NM	
890-1880-4	SW04A	Total/NA	Solid	8015 NM	
880-10637-A-130 MS	Matrix Spike	Total/NA	Solid	8015 NM	

Prep Batch: 17976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Total/NA	Solid	8015NM Prep	
890-1880-2	SW01A	Total/NA	Solid	8015NM Prep	
890-1880-3	SW03A	Total/NA	Solid	8015NM Prep	
890-1880-4	SW04A	Total/NA	Solid	8015NM Prep	
MB 880-17976/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17976/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10654-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10654-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

GC Semi VOA

Analysis Batch: 17979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Total/NA	Solid	8015B NM	17976
890-1880-2	SW01A	Total/NA	Solid	8015B NM	17976
890-1880-3	SW03A	Total/NA	Solid	8015B NM	17976
890-1880-4	SW04A	Total/NA	Solid	8015B NM	17976
MB 880-17976/1-A	Method Blank	Total/NA	Solid	8015B NM	17976
LCS 880-17976/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17976
LCSD 880-17976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17976
880-10654-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	17976
880-10654-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17976

HPLC/IC

Leach Batch: 18214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Soluble	Solid	DI Leach	
890-1880-2	SW01A	Soluble	Solid	DI Leach	
890-1880-3	SW03A	Soluble	Solid	DI Leach	
890-1880-4	SW04A	Soluble	Solid	DI Leach	
MB 880-18214/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18214/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18214/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10694-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10694-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1877-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1877-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1880-1	FS11A	Soluble	Solid	300.0	18214
890-1880-2	SW01A	Soluble	Solid	300.0	18214
890-1880-3	SW03A	Soluble	Solid	300.0	18214
890-1880-4	SW04A	Soluble	Solid	300.0	18214
MB 880-18214/1-A	Method Blank	Soluble	Solid	300.0	18214
LCS 880-18214/2-A	Lab Control Sample	Soluble	Solid	300.0	18214
LCSD 880-18214/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18214
880-10694-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	18214
880-10694-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18214
890-1877-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	18214
890-1877-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18214

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Client Sample ID: FS11A

Lab Sample ID: 890-1880-1

Date Collected: 01/27/22 09:10

Matrix: Solid

Date Received: 01/27/22 11:37

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	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 15:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17976	01/28/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17979	01/28/22 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 19:20	CH	XEN MID

Client Sample ID: SW01A

Lab Sample ID: 890-1880-2

Date Collected: 01/27/22 09:12

Matrix: Solid

Date Received: 01/27/22 11:37

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	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 15:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17976	01/28/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17979	01/28/22 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 19:32	CH	XEN MID

Client Sample ID: SW03A

Lab Sample ID: 890-1880-3

Date Collected: 01/27/22 09:15

Matrix: Solid

Date Received: 01/27/22 11:37

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	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17976	01/28/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17979	01/28/22 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 19:44	CH	XEN MID

Client Sample ID: SW04A

Lab Sample ID: 890-1880-4

Date Collected: 01/27/22 09:18

Matrix: Solid

Date Received: 01/27/22 11:37

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	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18100	01/31/22 16:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Client Sample ID: SW04A
Date Collected: 01/27/22 09:18
Date Received: 01/27/22 11:37

Lab Sample ID: 890-1880-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17976	01/28/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17979	01/28/22 14:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 19:56	CH	XEN MID

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

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1880-1
SDG: 31403471.002 task 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1880-1	FS11A	Solid	01/27/22 09:10	01/27/22 11:37	4.15
890-1880-2	SW01A	Solid	01/27/22 09:12	01/27/22 11:37	0 - 8
890-1880-3	SW03A	Solid	01/27/22 09:15	01/27/22 11:37	0 - 8
890-1880-4	SW04A	Solid	01/27/22 09:18	01/27/22 11:37	0 - 8



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: 1880

www.xenco.com Page 1 of 2

2/7/2022

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Program: UST/PST ☐ RP ☐ Rowfields ☐ RC ☐ Spertund	
State of Project: Reporting Level II ☐ Level III ☐ T/UST ☐ RP ☐ Level IV ☐	
Deliverables: EDD ☐	ADAPT ☐ Other: ☐

ANALYSIS REQUEST

Work Order Notes

Project Name:	Trinity Burrus Abo Unit #26	Turn Around	
Project Number:	31403471.002 Task 2	Routine	FOR BTEX + CHLORIDES
P.O. Number:		Rush: 24 HR	FOR TPH
Sampler's Name:	Payton Banner	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Well Ice:	Yes	No
Temperature (°C):	28.1	Thermometer ID	11111111			
Received Intact:	Yes	No	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes	No	Total Containers:			
Sample Custody Seals:	Yes	No				



890-1880 Chain of Custody

TAT starts the day/received by the lab, if received by 4:30pm

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers
FS11A	S	01/27/22	4:10	4.15'	1
SW01A	S	01/27/22	4:12	0-8'	1
SW03A	S	01/27/22	4:15	0-8'	1
SW04A	S	01/27/22	4:18	0-8'	1

TPH (EPA 8015) 24 RUSH
 BTEX (EPA 0-8021)
 Chloride (EPA 300.0)

COMPOSITE
 COMPOSITE
 COMPOSITE

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1880-1

SDG Number: 31403471.002 task 2

Login Number: 1880

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins 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: 890-1880-1
SDG Number: 31403471.002 task 2

Login Number: 1880

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 01/28/22 03:16 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1890-1

Laboratory Sample Delivery Group: 31403471.0002 task 2
Client Project/Site: Trinity Burrus Abo Unit #26
Revision: 1

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
2/11/2022 9:46:11 AM

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

LINKS

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

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

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Job ID: 890-1890-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1890-1

REVISION

The report being provided is a revision of the original report sent on 2/9/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change from SW04A to SW09.

Report revision history

Receipt

The sample was received on 1/31/2022 12:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18658 and analytical batch 880-18659 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-18779/3-A), (880-10781-A-22-D), (880-10781-A-22-E MS) and (880-10781-A-22-F MSD). Evidence of matrix interferences is not obvious.

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

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: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Client Sample ID: SW09

Lab Sample ID: 890-1890-1

Date Collected: 01/31/22 10:07

Matrix: Solid

Date Received: 01/31/22 12:28

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/08/22 08:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/08/22 08:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/08/22 08:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/07/22 08:19	02/08/22 08:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/08/22 08:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/07/22 08:19	02/08/22 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	02/07/22 08:19	02/08/22 08:03	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/07/22 08:19	02/08/22 08:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/08/22 14:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/08/22 16:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/07/22 17:05	02/08/22 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/22 17:05	02/08/22 16:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/22 17:05	02/08/22 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	02/07/22 17:05	02/08/22 16:51	1
o-Terphenyl	86		70 - 130	02/07/22 17:05	02/08/22 16:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.7		4.99	mg/Kg			02/08/22 02:40	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

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)
880-10931-A-7-A MS	Matrix Spike	127	105
880-10931-A-7-B MSD	Matrix Spike Duplicate	129	93
890-1890-1	SW09	141 S1+	106
LCS 880-18658/1-A	Lab Control Sample	132 S1+	105
LCSD 880-18658/2-A	Lab Control Sample Dup	128	107
MB 880-18657/5-A	Method Blank	128	110
MB 880-18658/5-A	Method Blank	119	97
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-10781-A-22-E MS	Matrix Spike	71	64 S1-
880-10781-A-22-F MSD	Matrix Spike Duplicate	71	64 S1-
890-1890-1	SW09	80	86
LCS 880-18779/2-A	Lab Control Sample	76	71
LCSD 880-18779/3-A	Lab Control Sample Dup	72	68 S1-
MB 880-18779/1-A	Method Blank	76	83
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18657/5-A

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18657

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:15	02/07/22 12:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:15	02/07/22 12:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:15	02/07/22 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/07/22 08:15	02/07/22 12:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:15	02/07/22 12:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/07/22 08:15	02/07/22 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	02/07/22 08:15	02/07/22 12:01	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/07/22 08:15	02/07/22 12:01	1

Lab Sample ID: MB 880-18658/5-A

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18658

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/07/22 23:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/07/22 23:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/07/22 23:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/07/22 08:19	02/07/22 23:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/07/22 08:19	02/07/22 23:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/07/22 08:19	02/07/22 23:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/07/22 08:19	02/07/22 23:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/07/22 08:19	02/07/22 23:37	1

Lab Sample ID: LCS 880-18658/1-A

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07715		mg/Kg		77	70 - 130
Toluene	0.100	0.07603		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.08313		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1636		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08153		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-18658/2-A

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07175		mg/Kg		72	70 - 130	7	35

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

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

Lab Sample ID: LCSD 880-18658/2-A

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08159		mg/Kg		82	70 - 130	7	35
Ethylbenzene	0.100	0.08688		mg/Kg		87	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1632		mg/Kg		82	70 - 130	0	35
o-Xylene	0.100	0.08597		mg/Kg		86	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-10931-A-7-A MS

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.101	0.05752	F1	mg/Kg		57	70 - 130
Toluene	<0.00199	U F1 F2	0.101	0.05827	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.101	0.06333	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.201	0.1223	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00199	U F1 F2	0.101	0.05963	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-10931-A-7-B MSD

Matrix: Solid

Analysis Batch: 18659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0990	0.01500	F1 F2	mg/Kg		15	70 - 130	117	35
Toluene	<0.00199	U F1 F2	0.0990	0.02418	F1 F2	mg/Kg		24	70 - 130	83	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.02910	F1 F2	mg/Kg		29	70 - 130	74	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.198	0.02518	F1 F2	mg/Kg		13	70 - 130	132	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.03469	F1 F2	mg/Kg		35	70 - 130	53	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-18779/1-A

Matrix: Solid

Analysis Batch: 18806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18779

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/07/22 17:05	02/08/22 13:37	1

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

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

Lab Sample ID: MB 880-18779/1-A

Matrix: Solid

Analysis Batch: 18806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18779

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/22 17:05	02/08/22 13:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/22 17:05	02/08/22 13:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/07/22 17:05	02/08/22 13:37	1
o-Terphenyl	83		70 - 130			02/07/22 17:05	02/08/22 13:37	1

Lab Sample ID: LCS 880-18779/2-A

Matrix: Solid

Analysis Batch: 18806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	866.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	879.4		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	76		70 - 130				
o-Terphenyl	71		70 - 130				

Lab Sample ID: LCSD 880-18779/3-A

Matrix: Solid

Analysis Batch: 18806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18779

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	826.6		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	853.7		mg/Kg		85	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	72		70 - 130						
o-Terphenyl	68	S1-	70 - 130						

Lab Sample ID: 880-10781-A-22-E MS

Matrix: Solid

Analysis Batch: 18806

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18779

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	865.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	52.3		1000	817.4		mg/Kg		77	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	71		70 - 130						
o-Terphenyl	64	S1-	70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

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

Lab Sample ID: 880-10781-A-22-F MSD

Matrix: Solid

Analysis Batch: 18806

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18779

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	868.9		mg/Kg		87	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	52.3		998	821.6		mg/Kg		77	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	71		70 - 130								
o-Terphenyl	64	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18695/1-A

Matrix: Solid

Analysis Batch: 18722

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/07/22 14:33	1

Lab Sample ID: LCS 880-18695/2-A

Matrix: Solid

Analysis Batch: 18722

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-18695/3-A

Matrix: Solid

Analysis Batch: 18722

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-10934-A-15-C MS

Matrix: Solid

Analysis Batch: 18722

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<5.00	U	250	254.3		mg/Kg		101	90 - 110

Lab Sample ID: 880-10934-A-15-D MSD

Matrix: Solid

Analysis Batch: 18722

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.00	U	250	255.0		mg/Kg		101	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

GC VOA

Prep Batch: 18657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-18657/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 18658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Total/NA	Solid	5035	
MB 880-18658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10931-A-7-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10931-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Total/NA	Solid	8021B	18658
MB 880-18657/5-A	Method Blank	Total/NA	Solid	8021B	18657
MB 880-18658/5-A	Method Blank	Total/NA	Solid	8021B	18658
LCS 880-18658/1-A	Lab Control Sample	Total/NA	Solid	8021B	18658
LCSD 880-18658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18658
880-10931-A-7-A MS	Matrix Spike	Total/NA	Solid	8021B	18658
880-10931-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18658

Analysis Batch: 18770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Total/NA	Solid	8015NM Prep	
MB 880-18779/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18779/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10781-A-22-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10781-A-22-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Total/NA	Solid	8015B NM	18779
MB 880-18779/1-A	Method Blank	Total/NA	Solid	8015B NM	18779
LCS 880-18779/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18779
LCSD 880-18779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18779
880-10781-A-22-E MS	Matrix Spike	Total/NA	Solid	8015B NM	18779
880-10781-A-22-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18779

Analysis Batch: 18870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

HPLC/IC

Leach Batch: 18695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Soluble	Solid	DI Leach	
MB 880-18695/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18695/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18695/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10934-A-15-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10934-A-15-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1890-1	SW09	Soluble	Solid	300.0	18695
MB 880-18695/1-A	Method Blank	Soluble	Solid	300.0	18695
LCS 880-18695/2-A	Lab Control Sample	Soluble	Solid	300.0	18695
LCSD 880-18695/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18695
880-10934-A-15-C MS	Matrix Spike	Soluble	Solid	300.0	18695
880-10934-A-15-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18695

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Client Sample ID: SW09

Lab Sample ID: 890-1890-1

Date Collected: 01/31/22 10:07

Matrix: Solid

Date Received: 01/31/22 12:28

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	18658	02/07/22 08:19	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18659	02/08/22 08:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/08/22 14:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18870	02/08/22 16:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18779	02/07/22 17:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18806	02/08/22 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18695	02/07/22 18:00	SC	XEN MID
Soluble	Analysis	300.0		1			18722	02/08/22 02:40	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

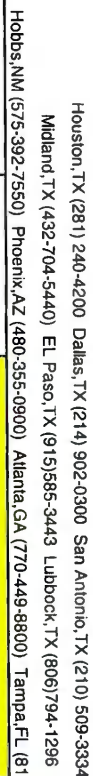
Sample Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1890-1
SDG: 31403471.0002 task 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1890-1	SW09	Solid	01/31/22 10:07	01/31/22 12:28	0 - 8

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



Chain of Custody

Work Order No.

Work Order Comments	
Program: UST/ST ☐ RP ☐ Rowfields ☐ RC ☐ \$perfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ T/UST ☐ RP ☐ L ☐ Level IV ☐ Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:	Trinity Burrus Abo Unit #26	Turn Around	ANALYSIS REQUEST				Work Order Notes
Project Number:	31403471.002 Task 2	Routine ☐					TPH 24 HR Rush
P.O. Number:		Rush: HOLD					HOLD UNTIL FURTHER NO
Sample's Name:	Payton Benner	Due Date:					

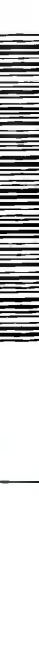
SAMPLE RECEIPT	Temp Blank:	☒ Yes	☐ No	Wel Ice:	☒ Yes	☐ No
Temperature (°C):	2.2/2.0					
Received Inact:	☒ Yes ☐ No Thermometer ID: <u>7NM-603</u>					
Cooler Custody Seals:	Yes		No		N/A	
Sample Custody Seals:	Yes		No		N/A	
			Total Containers:		-0.2	

Number of Containers

PA 8015) 24 RUSH

EPA 0=8021)

e (EPA 300.0)



890-1890 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

[illegible]

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>[Signature]</i>	<i>[Signature]</i>	1-51-21 1228	2		
3			4		
5			6		

Sourced Data 05/11/18 Row 2018

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1890-1
SDG Number: 31403471.0002 task 2Login Number: 1890
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins 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: 890-1890-1
SDG Number: 31403471.0002 task 2**Login Number: 1890****List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Midland****List Creation: 02/07/22 04:28 PM**

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1891-1

Laboratory Sample Delivery Group: 31403471.002 task 2

Client Project/Site: Trinity Burrus Abo Unit #26

Revision: 1

For:

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

Attn: Kalei Jennings

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

Authorized for release by:

2/11/2022 9:40:18 AM

Jessica Kramer, Project Manager
(432)704-5440

jessica.kramer@eurofinset.com

LINKS

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

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

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1891-1
SDG: 31403471.002 task 2

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Job ID: 890-1891-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-1891-1**REVISION

The report being provided is a revision of the original report sent on 2/7/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change from SS04A to SS08.

Report revision history

Receipt

The sample was received on 1/31/2022 12:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-10734-A-1-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: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Client Sample ID: SW08

Lab Sample ID: 890-1891-1

Date Collected: 01/31/22 09:25

Matrix: Solid

Date Received: 01/31/22 12:28

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 13:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 13:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 13:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/01/22 11:00	02/01/22 13:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/01/22 11:00	02/01/22 13:20	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/01/22 11:00	02/01/22 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	02/01/22 11:00	02/01/22 13:20	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/01/22 11:00	02/01/22 13:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/04/22 14:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 11:05	02/01/22 14:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 11:05	02/01/22 14:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 11:05	02/01/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	02/01/22 11:05	02/01/22 14:00	1
o-Terphenyl	65	S1-	70 - 130	02/01/22 11:05	02/01/22 14:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.9		4.97	mg/Kg			02/04/22 23:37	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

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)
880-10734-A-1-A MS	Matrix Spike	115	106
880-10734-A-1-B MSD	Matrix Spike Duplicate	152 S1+	113
890-1891-1	SW08	108	104
LCS 880-18173/1-A	Lab Control Sample	103	95
LCSD 880-18173/2-A	Lab Control Sample Dup	97	105
MB 880-18173/5-A	Method Blank	100	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-10650-A-1-I MS	Matrix Spike	75	74
880-10650-A-1-J MSD	Matrix Spike Duplicate	74	68 S1-
890-1891-1	SW08	64 S1-	65 S1-
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-18142/2-A	Lab Control Sample	71	67 S1-
LCSD 880-18142/3-A	Lab Control Sample Dup	76	73
MB 880-18142/1-A	Method Blank	88	86
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18173/5-A

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18173

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/22 07:30	02/01/22 11:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/22 07:30	02/01/22 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/01/22 07:30	02/01/22 11:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/01/22 07:30	02/01/22 11:16	1

Lab Sample ID: LCS 880-18173/1-A

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08127		mg/Kg		81	70 - 130
Toluene	0.100	0.07937		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07385		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1487		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07610		mg/Kg		76	70 - 130

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

Lab Sample ID: LCSD 880-18173/2-A

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08507		mg/Kg		85	70 - 130	5	35
Toluene	0.100	0.07653		mg/Kg		77	70 - 130	4	35
Ethylbenzene	0.100	0.07328		mg/Kg		73	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1480		mg/Kg		74	70 - 130	0	35
o-Xylene	0.100	0.07261		mg/Kg		73	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-10734-A-1-A MS

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.100	0.07517		mg/Kg		75	70 - 130
Toluene	<0.00202	U	0.100	0.07063		mg/Kg		70	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

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

Lab Sample ID: 880-10734-A-1-A MS

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U	0.100	0.07058		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1505		mg/Kg		75	70 - 130
o-Xylene	<0.00202	U	0.100	0.07254		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-10734-A-1-B MSD

Matrix: Solid

Analysis Batch: 18229

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.08802		mg/Kg		88	70 - 130	16	35
Toluene	<0.00202	U	0.0998	0.09875		mg/Kg		98	70 - 130	33	35
Ethylbenzene	<0.00202	U	0.0998	0.09415		mg/Kg		94	70 - 130	29	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1890		mg/Kg		95	70 - 130	23	35
o-Xylene	<0.00202	U	0.0998	0.1036		mg/Kg		104	70 - 130	35	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

Lab Sample ID: MB 880-18142/1-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18142

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:05	02/01/22 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:05	02/01/22 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:05	02/01/22 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	01/31/22 11:05	02/01/22 09:44	1
o-Terphenyl	86		70 - 130	01/31/22 11:05	02/01/22 09:44	1

Lab Sample ID: LCS 880-18142/2-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	834.6		mg/Kg		83	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

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

Lab Sample ID: LCS 880-18142/2-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18142

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: LCSD 880-18142/3-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18142

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1059		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	855.5		mg/Kg		86	70 - 130	2	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	76		70 - 130								
o-Terphenyl	73		70 - 130								

Lab Sample ID: 880-10650-A-1-I MS

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1023		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	929.5		mg/Kg		91	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	75		70 - 130								
o-Terphenyl	74		70 - 130								

Lab Sample ID: 880-10650-A-1-J MSD

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1112		mg/Kg		109	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	852.6		mg/Kg		83	70 - 130	9	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	74		70 - 130								
o-Terphenyl	68	S1-	70 - 130								

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18363/1-A

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/04/22 22:17	1

Lab Sample ID: LCS 880-18363/2-A

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-18363/3-A

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	269.2		mg/Kg		108	90 - 110	9	20

Lab Sample ID: 880-10869-A-5-B MS

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.87		249	276.0		mg/Kg		107	90 - 110

Lab Sample ID: 880-10869-A-5-C MSD

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.87		249	244.3		mg/Kg		94	90 - 110	12	20

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

GC VOA

Prep Batch: 18173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Total/NA	Solid	5035	
MB 880-18173/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18173/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18173/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10734-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10734-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Total/NA	Solid	8021B	18173
MB 880-18173/5-A	Method Blank	Total/NA	Solid	8021B	18173
LCS 880-18173/1-A	Lab Control Sample	Total/NA	Solid	8021B	18173
LCSD 880-18173/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18173
880-10734-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	18173
880-10734-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18173

Analysis Batch: 18599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Total/NA	Solid	8015NM Prep	
MB 880-18142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10650-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10650-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Total/NA	Solid	8015 NM	

Analysis Batch: 18228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Total/NA	Solid	8015B NM	18142
MB 880-18142/1-A	Method Blank	Total/NA	Solid	8015B NM	18142
LCS 880-18142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18142
LCSD 880-18142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18142
880-10650-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	18142
880-10650-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18142

HPLC/IC

Leach Batch: 18363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Soluble	Solid	DI Leach	
MB 880-18363/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18363/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18363/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

HPLC/IC (Continued)

Leach Batch: 18363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10869-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10869-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1891-1	SW08	Soluble	Solid	300.0	18363
MB 880-18363/1-A	Method Blank	Soluble	Solid	300.0	18363
LCS 880-18363/2-A	Lab Control Sample	Soluble	Solid	300.0	18363
LCSD 880-18363/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18363
880-10869-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	18363
880-10869-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18363

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Client Sample ID: SW08

Lab Sample ID: 890-1891-1

Date Collected: 01/31/22 09:25

Matrix: Solid

Date Received: 01/31/22 12:28

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	18173	02/01/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18229	02/01/22 13:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18142	02/01/22 11:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18228	02/01/22 14:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/04/22 23:37	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

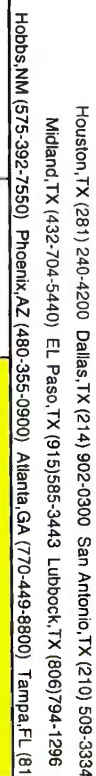
Sample Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1891-1
SDG: 31403471.002 task 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1891-1	SW08	Solid	01/31/22 09:25	01/31/22 12:28	0 - 8

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



Chain of Custody

Work Order No:

Work Order Comments									
Program: UST/ST		☒ RP	☐ Growfields	☐ RC	☐ \$perfund	☐			
State of Project:									
Reporting Level II	☐ Level III	☐ T/U/UST	☐ RP	☐ L	☐ Level IV	☐			
Deliverables: EDD	☐	ADAPT	☐	Other:					

Project Name:	Trinity Burrus Abo Unit #26	Turn Around	ANALYSIS REQUEST					Work Order Notes
Project Number:	31403471.002 Task 2	Routine	BLKOKIDES + BTEX					TPH 24 HR Rush
P.O. Number:		Rush: TPH 24 HR						
Sampler's Name:	Payton Benner	Due Date:						

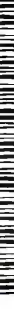
SAMPLE RECEIPT			
Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
Temperature (°C):	2.2/2.0 Thermometer ID		
Received Intact:	☒ Yes ☐ No	7WIM-003	
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:	

Number of Containers

PA 8015) 24 RUSH

EPA 0=8021)

e (EPA 300.0)



890-1891 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

[illegible]

Total	200.7 / 6010	200.8 / 6020	Circle Method(s) and Metal(s) to be analyzed																											
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
TCLP / SPLP 6010: 8RCRA			Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												
			1631 / 245.1 / 7470 / 7471 : Hg																											

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	1-31-22 1228	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1891-1
SDG Number: 31403471.002 task 2Login Number: 1891
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins 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: 890-1891-1
SDG Number: 31403471.002 task 2**Login Number: 1891****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 02/01/22 11:35 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1893-1

Laboratory Sample Delivery Group: 31403471.002 task 2
Client Project/Site: Trinity Burrus Abo Unit #26
Revision: 1

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
2/11/2022 9:44:56 AM

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: Trinity Burrus Abo Unit #26

Laboratory Job ID: 890-1893-1
SDG: 31403471.002 task 2

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	18

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

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Job ID: 890-1893-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1893-1

REVISION

The report being provided is a revision of the original report sent on 2/7/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change from SW01A to SW07.

Report revision history

Receipt

The sample was received on 1/31/2022 12:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18258 and analytical batch 880-18331 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Client Sample ID: SW07

Lab Sample ID: 890-1893-1

Date Collected: 01/31/22 09:28

Matrix: Solid

Date Received: 01/31/22 12:28

Sample Depth: 0 - 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 18:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 18:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 18:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/22 11:00	02/02/22 18:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/22 11:00	02/02/22 18:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/22 11:00	02/02/22 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/02/22 11:00	02/02/22 18:22	1
1,4-Difluorobenzene (Surr)	121		70 - 130	02/02/22 11:00	02/02/22 18:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/04/22 14:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/01/22 11:05	02/01/22 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/01/22 11:05	02/01/22 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/01/22 11:05	02/01/22 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	02/01/22 11:05	02/01/22 14:43	1
o-Terphenyl	70		70 - 130	02/01/22 11:05	02/01/22 14:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.1		4.97	mg/Kg			02/04/22 23:49	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

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)
890-1892-A-1-A MS	Matrix Spike	106	85
890-1892-A-1-B MSD	Matrix Spike Duplicate	99	101
890-1893-1	SW07	118	121
LCS 880-18258/1-A	Lab Control Sample	90	94
LCSD 880-18258/2-A	Lab Control Sample Dup	101	101
MB 880-18258/5-A	Method Blank	97	79
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-10650-A-1-I MS	Matrix Spike	75	74
880-10650-A-1-J MSD	Matrix Spike Duplicate	74	68 S1-
890-1893-1	SW07	68 S1-	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-18142/2-A	Lab Control Sample	71	67 S1-
LCSD 880-18142/3-A	Lab Control Sample Dup	76	73
MB 880-18142/1-A	Method Blank	88	86
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18258/5-A

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18258

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/22 08:00	02/02/22 11:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/22 08:00	02/02/22 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/02/22 08:00	02/02/22 11:12	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/02/22 08:00	02/02/22 11:12	1

Lab Sample ID: LCS 880-18258/1-A

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08040		mg/Kg		80	70 - 130
Toluene	0.100	0.07602		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07693		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1446		mg/Kg		72	70 - 130
o-Xylene	0.100	0.07947		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-18258/2-A

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18258

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08317		mg/Kg		83	70 - 130	3	35
Toluene	0.100	0.07989		mg/Kg		80	70 - 130	5	35
Ethylbenzene	0.100	0.08203		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1684		mg/Kg		84	70 - 130	15	35
o-Xylene	0.100	0.08378		mg/Kg		84	70 - 130	5	35

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

Lab Sample ID: 890-1892-A-1-A MS

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F1	0.101	0.05707	F1	mg/Kg		57	70 - 130
Toluene	<0.00201	U F1	0.101	0.06223	F1	mg/Kg		62	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

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

Lab Sample ID: 890-1892-A-1-A MS

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U F1	0.101	0.06630	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1286	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.06102	F1	mg/Kg		61	70 - 130

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

Lab Sample ID: 890-1892-A-1-B MSD

Matrix: Solid

Analysis Batch: 18331

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0998	0.07087		mg/Kg		71	70 - 130	22	35
Toluene	<0.00201	U F1	0.0998	0.06713	F1	mg/Kg		67	70 - 130	8	35
Ethylbenzene	<0.00201	U F1	0.0998	0.06713	F1	mg/Kg		67	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1374	F1	mg/Kg		69	70 - 130	7	35
o-Xylene	<0.00201	U F1	0.0998	0.06773	F1	mg/Kg		68	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-18142/1-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18142

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:05	02/01/22 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:05	02/01/22 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:05	02/01/22 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	01/31/22 11:05	02/01/22 09:44	1
o-Terphenyl	86		70 - 130	01/31/22 11:05	02/01/22 09:44	1

Lab Sample ID: LCS 880-18142/2-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	834.6		mg/Kg		83	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

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

Lab Sample ID: LCS 880-18142/2-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18142

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: LCSD 880-18142/3-A

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	855.5		mg/Kg		86	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 880-10650-A-1-I MS

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1023		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	929.5		mg/Kg		91	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 880-10650-A-1-J MSD

Matrix: Solid

Analysis Batch: 18228

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18142

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1112		mg/Kg		109	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	852.6		mg/Kg		83	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	68	S1-	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18363/1-A

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/04/22 22:17	1

Lab Sample ID: LCS 880-18363/2-A

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-18363/3-A

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	269.2		mg/Kg		108	90 - 110	9	20

Lab Sample ID: 880-10869-A-5-B MS

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.87		249	276.0		mg/Kg		107	90 - 110

Lab Sample ID: 880-10869-A-5-C MSD

Matrix: Solid

Analysis Batch: 18607

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.87		249	244.3		mg/Kg		94	90 - 110	12	20

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

GC VOA

Prep Batch: 18258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Total/NA	Solid	5035	
MB 880-18258/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18258/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18258/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1892-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1892-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Total/NA	Solid	8021B	18258
MB 880-18258/5-A	Method Blank	Total/NA	Solid	8021B	18258
LCS 880-18258/1-A	Lab Control Sample	Total/NA	Solid	8021B	18258
LCSD 880-18258/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18258
890-1892-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	18258
890-1892-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18258

Analysis Batch: 18599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Total/NA	Solid	8015NM Prep	
MB 880-18142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10650-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10650-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Total/NA	Solid	8015 NM	

Analysis Batch: 18228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Total/NA	Solid	8015B NM	18142
MB 880-18142/1-A	Method Blank	Total/NA	Solid	8015B NM	18142
LCS 880-18142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18142
LCSD 880-18142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18142
880-10650-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	18142
880-10650-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18142

HPLC/IC

Leach Batch: 18363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Soluble	Solid	DI Leach	
MB 880-18363/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18363/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18363/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

HPLC/IC (Continued)

Leach Batch: 18363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10869-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10869-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1893-1	SW07	Soluble	Solid	300.0	18363
MB 880-18363/1-A	Method Blank	Soluble	Solid	300.0	18363
LCS 880-18363/2-A	Lab Control Sample	Soluble	Solid	300.0	18363
LCSD 880-18363/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18363
880-10869-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	18363
880-10869-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18363

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Client Sample ID: SW07

Lab Sample ID: 890-1893-1

Date Collected: 01/31/22 09:28

Matrix: Solid

Date Received: 01/31/22 12:28

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	18258	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18331	02/02/22 18:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18599	02/04/22 14:16	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18142	02/01/22 11:05	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18228	02/01/22 14:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/04/22 23:49	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Abo Unit #26

Job ID: 890-1893-1
SDG: 31403471.002 task 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1893-1	SW07	Solid	01/31/22 09:28	01/31/22 12:28	0 - 8

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



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0500 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 586-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 392-7550
Hobbs, NM (505) 392-7550

Work Order No: _____

Page 1 of 1

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Chain of Custody

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments									
Program: UST/PT		☐ RP	☐ Growfields	☐ RC	☐ Superfund	☐			
State of Project:									
Reporting Level II		☐ Level III	☐ T/UST	☐ RP	☐ Level IV	☐			
Deliverables: EDD		☐	ADAPT	☐	Other:				

Project Name:	Trinity Burrus Abc Unit #26	Turn Around	ANALYSIS REQUEST					Work Order Notes
Project Number:	31403471.002 Task 2	Routine ☒	CHLOE RIDEK + STEEX					TPH 24 HR Rush
P.O. Number:		Rush: ☒	TPH 24 HR					
Sampler's Name:	Payton Benner	Due Date:						

SAMPLE RECEIPT		Temp Blank:		Yes		No	
Temperature (°C):	2.2/2.0					Thermometer ID	
Received In tact:	Yes	No				TMM-207	
Cooler Custody Seals:	Yes	No		N/A		Correction Factor:	
Sample Custody Seals:	Yes	No		N/A		Total Containers:	
						-0.2	

Number of Containers

PA 8015) 24 RUSH

EPA 0=8021)

le (EPA 300.0)

890-1893 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

[illegible]

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed
 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
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>premier</i>	<i>Quet</i>	1-31-22 1228	2		
3			4		
5			6		

Revised Date: 02-11-2020 Doc: 2019

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1893-1
SDG Number: 31403471.002 task 2Login Number: 1893
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins 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: 890-1893-1
SDG Number: 31403471.002 task 2**Login Number: 1893****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 02/01/22 11:35 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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 83010

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 83010
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure approved.	3/22/2022