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	NGRL0831235535
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@aecnm.com	Incident # *(assigned by OCD)*	NGRL0831235535
Contact mailing address	P.O. Box 1973 Roswell, NM 88202-1973		

Location of Release Source

Latitude 33.2615166 Longitude -103.0858765
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Trinity Burrus Abo Unit #011	Site Type	Production Facility
Date Release Discovered	October 20, 2008	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
K	22	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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 150	Volume Recovered (bbls) 80
	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

A 1/4 inch gauge blew out releasing produced water. Vacuum trucks were used to recover free fluid. Equipment was brought in to immediately start scraping the location to minimize the depth of impact. 80 bbls of fluid were recovered. Immediate remedial operations were commenced by soil removal.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NGRL0831235535
District RP	
Facility ID	
Application ID	

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? Release is greater than 30 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

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

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 02/17/2022

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

OCD Only

Received by: _____ Date: _____

Incident ID	NGRL0831235535
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NGRL0831235535
District RP	
Facility ID	
Application ID	

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

Printed Name: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 2/17/2022

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

OCD Only

Received by: _____ Date: _____

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Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NGRL0831235535
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the 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 OCD 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 of 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: Jeffery Tew Date: 2/17/2022

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

ODC Only

Received by: Date:

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: Jennifer Nobui Date: 06/21/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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 #011
Incident Number NGRL0831235535
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 and soil sampling activities at the Trinity Burrus Abo Unit #011 (Site), located in Unit K, Section 22, Township 12 South, Range 38 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Armstrong is submitting this Closure Request and requesting no further action (NFA) for Incident Number NGRL0831235535.

RELEASE BACKGROUND

On October 20, 2008, a 1/4-inch gauge blew out, resulting in the release of approximately 150 barrels (bbls) of produced water into containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids and saturated surficial soil; approximately 80 bbls of produced water were recovered. Chesapeake Operating, the operator of the facility at the time of the release, notified the New Mexico Oil Conservation Division (NMOCD) on November 7, 2008. The release was assigned Incident Number NGRL0831235535. Armstrong is the current owner and operator of the Site and it was brought to their attention this release was not considered closed by NMOCD. As such, Armstrong completed site assessment activities as to gain NFA for the release.

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 Geological Survey (USGS)

well 331518103044201, located approximately 0.36 miles east of the Site. The groundwater well has a reported depth to groundwater of 23 feet bgs and an undetermined total well depth. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced water well records are provided in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent freshwater pond, located approximately 1,840 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 AND DELINEATION SOIL SAMPLING ACTIVITIES

On January 31, 2022, WSP personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel advanced five boreholes (BH01 though BH05) via hand-auger to assess the presence or absence of soil impacts. Two soil samples were collected from each borehole at depths ranging from approximately 0.5 feet to 3 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the boreholes were documented on a lithologic/soil sampling log and are included as Attachment 2. The delineation boreholes were backfilled with the soil removed. The borehole delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is included in Attachment 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States

Environmental Protection Agency (EPA) Method 8021B; TPH- gasoline 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.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples BH01 through BH05, collected at depths ranging from approximately 0.5 bgs to 3 feet bgs, indicated benzene, BTEX, TPH, and chloride concentrations were all compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

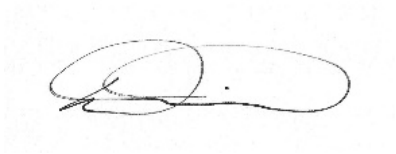
Site assessment and delineation activities were conducted at the Site to address the October 20, 2008 produced water release. Once the release was discovered, the former operator immediately dispatched a vacuum truck to the Site to recover freestanding fluids and remove stained soil. Laboratory analytical results for the 2022 delineation soil samples indicated benzene, BTEX, TPH and chloride concentrations were compliant with Closure Criteria. As such, there appears to be an absence of soil impacts related to the 2008 release and no further remediation appears necessary.

Based on initial response efforts, the absence of elevated field screening results, and soil sample laboratory analytical results compliant with Closure Criteria, Armstrong respectfully requests NFA for Incident Number NGRL0831235535.

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

Sincerely,

WSP USA Inc.



Kalei Jennings
Consultant, Environmental Scientist

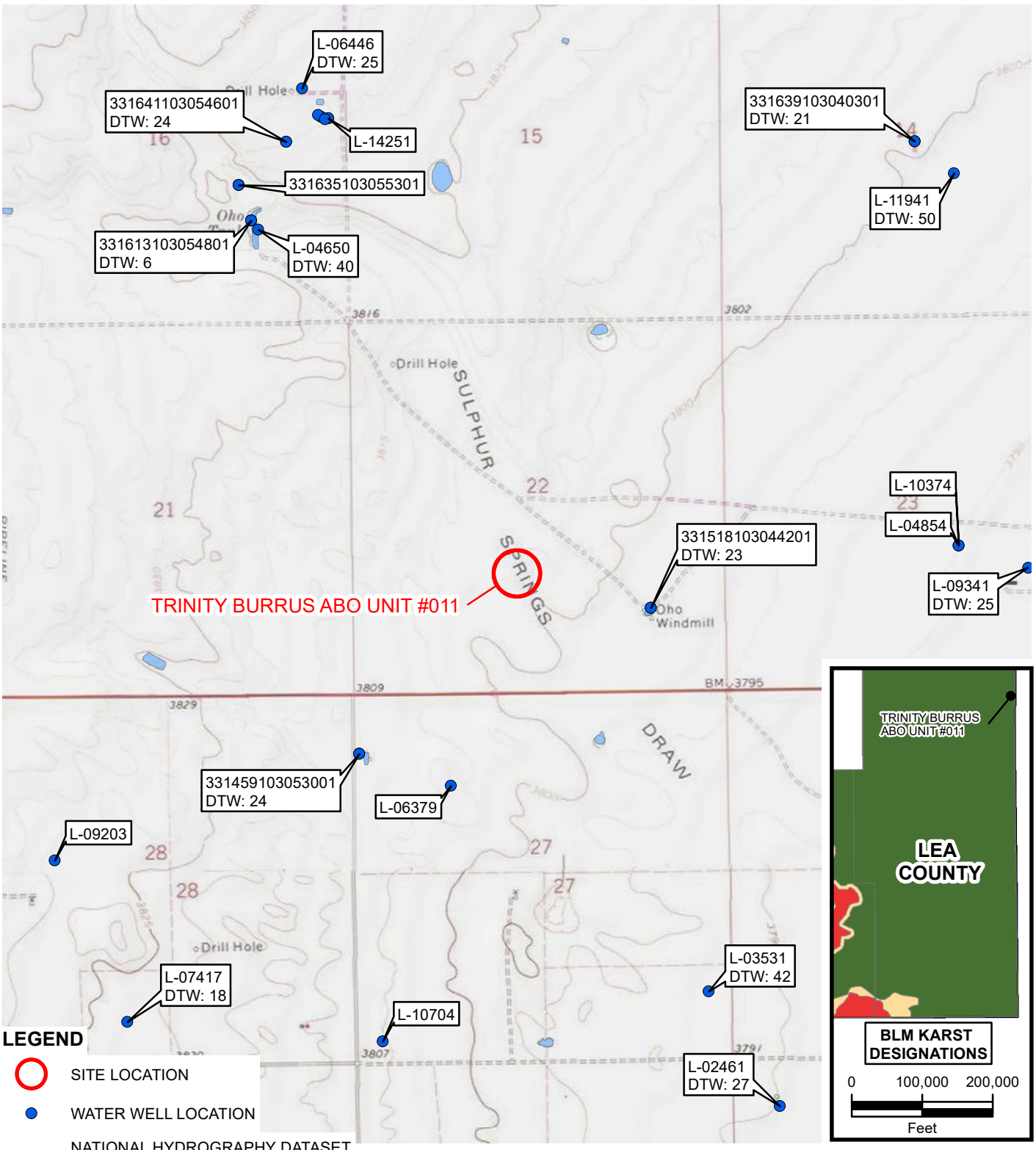
Daniel R. Moir, P.G.
Sr. Lead Consultant, Geologist

cc: Kyle Alpers, Armstrong Energy Corporation

Attachments:

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

FIGURES



LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: INCIDENT NUMBER NGRL0831235535
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
TRINITY BURRUS ABO UNIT #011
UNIT K SEC 22 T12S R38E
LEA COUNTY, NEW MEXICO
ARMSTRONG ENERGY CORPORATION

P:\Armstrong Energy Corp\GIS\31403471.006_TRINITY BURRUS ABO UNIT #011\MXD\31403471.006_FIG01_SL_RECEPTOR_2022.mxd

IMAGE COURTESY OF ESRI

LEGEND

- DELINTEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

0 50 100

Feet

N

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
TRINITY BURRUS ABO UNIT #011
UNIT K SEC 22 T12S R38E
LEA COUNTY, NEW MEXICO
ARMSTRONG ENERGY CORPORATION

NOTE: INCIDENT NUMBER NGRL0831235535
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

P:\Armstrong Energy Corp\GIS\31403471.006_TRINITY BURRUS ABO UNIT #011\MXD\31403471.006_FIG02_DELINEATION_2022.mxd

TABLES

Table 1

Soil Analytical Results
Trinity Burrus Unit #011
Incident Number: NGRL0831235535
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (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
Delineation Soil Samples										
BH01	01/31/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	54.5
BH01A	01/31/2022	3	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	8.66
BH02	01/31/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	117
BH02A	01/31/2022	3	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	64.9
BH03	01/31/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	10.6
BH03A	01/31/2022	3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	18.9
BH04	01/31/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	17.1
BH04A	01/31/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	109
BH05	01/31/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	8.01
BH05A	01/31/2022	3	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	54.6

Notes:

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORDS

National Water Information System: Web Interface

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

Click to hideNews Bulletins

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

USGS 331518103044201 12S.38E.22.44114

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

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:

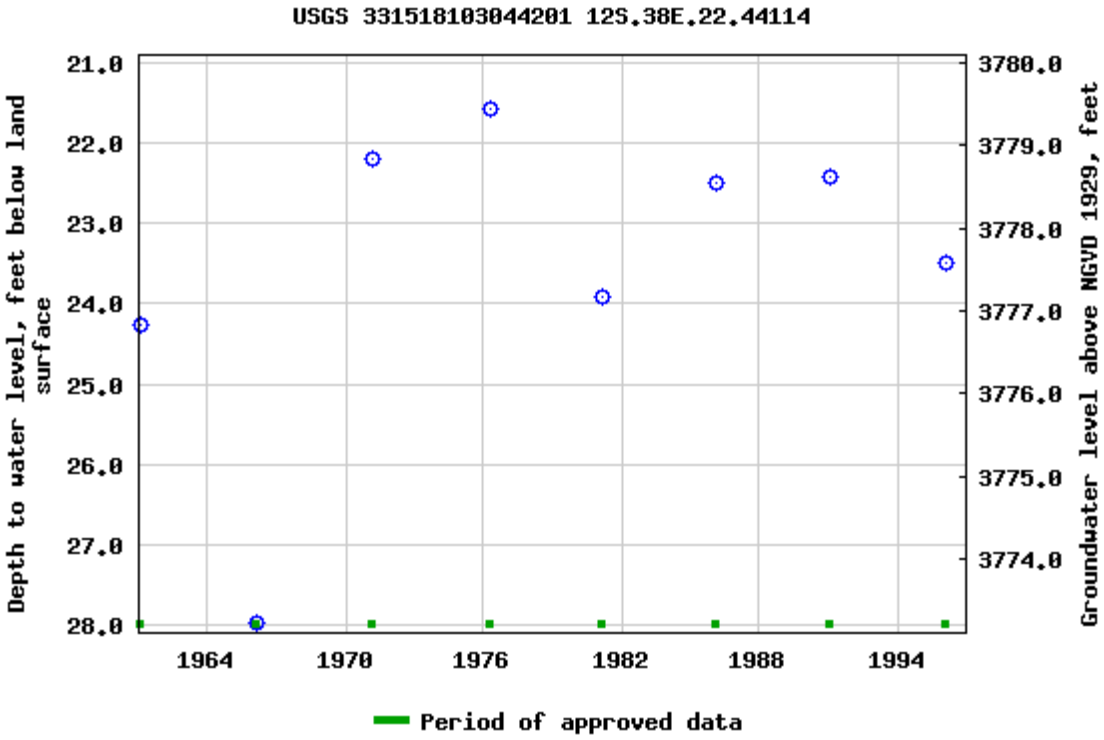
Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-02-09	1996-03-01	5
Revisions	Unavailable (site:0) (timeseries:0)		

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
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-02-17 21:26:45 EST
0.74 0.48 nadww01

Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 03531	2	4	4	27	12S	38E	679135	3680111*

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

Driller License:	111	**Driller Company:**	BURKE, EDWARD B.
Driller Name:	BURKE, EDWARD B.		
Drill Start Date:	05/08/1957	**Drill Finish Date:**	05/08/1957
Log File Date:	05/15/1957	**PCW Rcv Date:**	
Pump Type:		**Pipe Discharge Size:**	
Casing Size:	7.00	**Depth Well:**	96 feet

Plug Date:	07/17/1957		
Source:	Shallow		
Estimated Yield:			
Depth Water:	42 feet		

Water Bearing Stratifications:	Top	Bottom	Description
	73	77	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	82

***UTM location was derived from PLSS - see Help**

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOGS

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **BH01**	Date: **01/31/2021**
	Site Name: **Trinity Burrus Abo Unit #011**	
	RP or Incident Number **NGRL0831235535**	
	WSP Job Number: **31403471.006**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TC	Method: Hand Auger
Lat/Long: **33.261455, -103.085880**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 3 feet
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	313	0.2	Y	BH01	0.5	0.5	GP/GM	GRAVEL, abundant silt and sand, poorly graded, dry, dark brown staining, no odor.
D	364	0.1	Y			1	GP/GM	GRAVEL, abundant silt and sand, poorly graded, dry, dark brown staining, no odor.
						2		
D	313	0.0	Y	BH01A	3	3	GP/GM	GRAVEL, abundant silt and sand, caliche gravel, poorly graded, dry, dark brown staining, no odor.

TD @ 3 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **BH02**	Date: **01/31/2021**
	Site Name: **Trinity Burrus Abo Unit #011**	
	RP or Incident Number **NGRL0831235535**	
	WSP Job Number: **31403471.006**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TC	Method: Hand Auger
Lat/Long: **33.261344, -103.085758**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 3 feet
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	414	0.0	Y	BH02	0.5	0.5	GP/GM	GRAVEL, abundant silt and sand, poorly graded, dry, dark brown staining, no odor.
D	364	0.0	Y			1	GP/GM	GRAVEL, abundant silt and sand, poorly graded, dry, dark brown staining, no odor.
						2		
D	<168	0.0	Y	BH02A	3	3	GP/GM	GRAVEL, abundant silt and sand, caliche gravel, poorly graded, dry, dark brown staining, no odor.

TD @ 3 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **BH03**	Date: **01/31/2021**
	Site Name: **Trinity Burrus Abo Unit #011**	
	RP or Incident Number **NGRL0831235535**	
	WSP Job Number: **31403471.006**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TC	Method: Hand Auger
Lat/Long: **33.261406, -103.085656**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 3 feet
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	582	0.1	Y	BH03	0.5	0.5	GS/SP	GRAVEL, abundant sand, poorly graded, dry, dark reddish brown staining, no odor.
D	<168	0.0	Y			1	GM/GC	GRAVEL, abundant silt and sand, poorly graded, dry, dark brown staining, no odor.
						2		
D	<168	0.0	Y	BH03A	3	3	GM/GC	GRAVEL, abundant silt and sand, poorly graded, dry dark brown staining, no odor.

TD @ 3 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **BH04**	Date: **01/31/2021**
	Site Name: **Trinity Burrus Abo Unit #011**	
	RP or Incident Number **NGRL0831235535**	
	WSP Job Number: **31403471.006**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TC	Method: Hand Auger
Lat/Long: **33.261315, -103.085585**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 3 feet
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	<168	0.1	Y	BH04	0.5	0.5	GM/GC	GRAVEL, abundant sand and silt, poorly graded, dry, dark brown staining, no odor.
D	<168	0.0	Y			1	GM/GC	GRAVEL, abundant silt and sand, poorly graded, dry, dark brown staining, no odor.
						2		
D	<168	0.0	Y	BH04A	3	3	GM/GC	GRAVEL, abundant silt and sand, poorly graded, dry dark brown staining, no odor.

TD @ 3 ft bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **BH05**	Date: **01/31/2021**
	Site Name: **Trinity Burrus Abo Unit #011**	
	RP or Incident Number **NGRL0831235535**	
	WSP Job Number: **31403471.006**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TC	Method: Hand Auger
Lat/Long: **33.261359, -103.085483**	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 3 feet
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	<168	0.4	Y	BH05	0.5	0.5	GM/GC	GRAVEL, abundant sand and silt, poorly graded, dry, dark brown staining, no odor.
D	<168	0.2	Y			1	GM/GC	GRAVEL, abundant silt, less sand, poorly graded, dry, dark brown staining, no odor.
						2		
D	<168	0.0	Y	BH05A	3	3	GM/GC	GRAVEL, abundant silt, less sand poorly graded, dry dark brown staining, no odor.

TD @ 3 ft bgs

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
Armstrong Energy Corporation	**Trinity Burrus Abo Unit #011 Lea County, New Mexico**	**NGRL0831235535**

Photo No.	**Date**
1	January 31, 2022

Photo of pad taken during delineation activities.

Photo No.	**Date**
2	January 31, 2022

Photo of pad taken during delineation activities.

ATTACHMENT 4: LABORATORY ANALYTICAL **REPORTS**

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1899-1
Laboratory Sample Delivery Group: 31403471.006
Client Project/Site: Trinity Burrus Unit #011

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
2/7/2022 4:07:47 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Laboratory Job ID: 890-1899-1
SDG: 31403471.006

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

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.
S1-	Surrogate recovery exceeds control limits, low 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. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

Job ID: 890-1899-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1899-1

Receipt
The samples were received on 2/1/2022 10:34 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 0.8°C

Receipt Exceptions
The collection time listed on the COC for samples BH01 (890-1899-1), BH01A (890-1899-2), BH02 (890-1899-3), BH02A (890-1899-4), BH03 (890-1899-5), BH03A (890-1899-6), BH04 (890-1899-7), BH04A (890-1899-8), BH05 (890-1899-9) and BH05A (890-1899-10) was chronologically later than the laboratory receipt time for the samples. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.

COC Dates were messed up- called client Travis Casey who agreed the samples were taken on 1-31-22 like it says on jar. I was given permission to change the COC to the corrected dates.

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.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18304 and analytical batch 880-18332 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: BH04A (890-1899-8), BH05 (890-1899-9) and (880-10781-A-13-F 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.

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-18406 and analytical batch 880-18623 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: BH01A (890-1899-2), BH02 (890-1899-3), BH02A (890-1899-4), BH03 (890-1899-5), BH03A (890-1899-6), BH04 (890-1899-7), BH04A (890-1899-8), BH05 (890-1899-9), BH05A (890-1899-10), (890-1899-A-1-D MS) and (890-1899-A-1-E 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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18570 and analytical batch 880-18622 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 880-18363 and analytical batch 880-18607 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 #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH01

Date Collected: 01/31/22 12:53
Date Received: 02/01/22 10:34
Sample Depth: 0.5

Lab Sample ID: 890-1899-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/02/22 14:00	02/02/22 20:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/22 14:00	02/02/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*02/02/22 14:00*	*02/02/22 20:04*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/02/22 14:00*	*02/02/22 20:04*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 14:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 14:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*02/02/22 14:36*	*02/05/22 14:49*	*1*
o-Terphenyl	*78*		*70 - 130*	*02/02/22 14:36*	*02/05/22 14:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.5**		4.97		mg/Kg			02/05/22 00:26	1

Client Sample ID: BH01A

Date Collected: 01/31/22 12:59
Date Received: 02/01/22 10:34
Sample Depth: 3

Lab Sample ID: 890-1899-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/02/22 14:00	02/02/22 20:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/02/22 14:00	02/02/22 20:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/02/22 14:00	02/02/22 20:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/02/22 14:00	02/02/22 20:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/02/22 14:00	02/02/22 20:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/02/22 14:00	02/02/22 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/02/22 14:00*	*02/02/22 20:25*	*1*

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

Client Sample ID: BH01A
Lab Sample ID: 890-1899-2
Date Collected: 01/31/22 12:59
Matrix: Solid
Date Received: 02/01/22 10:34
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/02/22 14:00*	*02/02/22 20:25*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 15:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*55*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 15:55*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.66**		4.98		mg/Kg			02/05/22 00:45	1

Client Sample ID: BH02
Lab Sample ID: 890-1899-3
Date Collected: 01/31/22 13:03
Matrix: Solid
Date Received: 02/01/22 10:34
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/02/22 14:00	02/02/22 20:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 20:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/22 14:00	02/02/22 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/02/22 14:00*	*02/02/22 20:45*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/02/22 14:00*	*02/02/22 20:45*	*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			02/07/22 15:34	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			02/07/22 16:46	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

Client Sample ID: BH02 — Lab Sample ID: 890-1899-3

Date Collected: 01/31/22 13:03 **Matrix: Solid**
Date Received: 02/01/22 10:34
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/02/22 14:36	02/05/22 16:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 16:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 16:16*	*1*
o-Terphenyl	*74*		*70 - 130*	*02/02/22 14:36*	*02/05/22 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		4.99		mg/Kg			02/05/22 00:51	1

Client Sample ID: BH02A — Lab Sample ID: 890-1899-4

Date Collected: 01/31/22 13:07 **Matrix: Solid**
Date Received: 02/01/22 10:34
Sample Depth: 3

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 14:00	02/02/22 21:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/22 14:00	02/02/22 21:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/22 14:00	02/02/22 21:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/02/22 14:00	02/02/22 21:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/22 14:00	02/02/22 21:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/02/22 14:00	02/02/22 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/02/22 14:00*	*02/02/22 21:06*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*02/02/22 14:00*	*02/02/22 21:06*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 16:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 16:39*	*1*
o-Terphenyl	*76*		*70 - 130*	*02/02/22 14:36*	*02/05/22 16:39*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH02A

Lab Sample ID: 890-1899-4

Date Collected: 01/31/22 13:07
Date Received: 02/01/22 10:34
Sample Depth: 3

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.9		4.97		mg/Kg			02/05/22 00:57	1

Client Sample ID: BH03

Lab Sample ID: 890-1899-5

Date Collected: 01/31/22 13:09
Date Received: 02/01/22 10:34
Sample Depth: 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 21:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 21:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 21:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/02/22 14:00	02/02/22 21:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/02/22 14:00	02/02/22 21:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/02/22 14:00	02/02/22 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/02/22 14:00*	*02/02/22 21:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/02/22 14:00*	*02/02/22 21:26*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 17:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 17:00*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/02/22 14:36*	*02/05/22 17:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		4.98		mg/Kg			02/05/22 01:03	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH03A

Lab Sample ID: 890-1899-6
Matrix: Solid
Date Collected: 01/31/22 13:15
Date Received: 02/01/22 10:34
Sample Depth: 3

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 19:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 19:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 19:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/02/22 11:00	02/02/22 19:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 19:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/02/22 11:00	02/02/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*02/02/22 11:00*	*02/02/22 19:50*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/02/22 11:00*	*02/02/22 19:50*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 17:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 17:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 17:23*	*1*
o-Terphenyl	*74*		*70 - 130*	*02/02/22 14:36*	*02/05/22 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.9**		4.99		mg/Kg			02/05/22 01:09	1

Client Sample ID: BH04

Lab Sample ID: 890-1899-7
Matrix: Solid
Date Collected: 01/31/22 13:17
Date Received: 02/01/22 10:34
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		02/02/22 11:00	02/02/22 20:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 20:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 20:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/02/22 11:00	02/02/22 20:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 20:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/02/22 11:00	02/02/22 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/02/22 11:00*	*02/02/22 20:11*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH04

Date Collected: 01/31/22 13:17
Date Received: 02/01/22 10:34
Sample Depth: 0.5

Lab Sample ID: 890-1899-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/02/22 11:00*	*02/02/22 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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/02/22 14:36	02/05/22 17:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/02/22 14:36	02/05/22 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 17:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*02/02/22 14:36*	*02/05/22 17:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.1**		5.00	mg/Kg			02/05/22 01:15	1

Client Sample ID: BH04A

Date Collected: 01/31/22 13:21
Date Received: 02/01/22 10:34
Sample Depth: 3

Lab Sample ID: 890-1899-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 20:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 20:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 20:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/02/22 11:00	02/02/22 20:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/02/22 11:00	02/02/22 20:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/02/22 11:00	02/02/22 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*02/02/22 11:00*	*02/02/22 20:31*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/02/22 11:00*	*02/02/22 20:31*	*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			02/07/22 15:34	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			02/07/22 16:46	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH04A

Lab Sample ID: 890-1899-8
Matrix: Solid
Date Collected: 01/31/22 13:21
Date Received: 02/01/22 10:34
Sample Depth: 3

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		02/02/22 14:36	02/05/22 18:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 18:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 18:06*	*1*
o-Terphenyl	*77*		*70 - 130*	*02/02/22 14:36*	*02/05/22 18:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**	**F1**	5.00		mg/Kg			02/05/22 04:14	1

Client Sample ID: BH05

Lab Sample ID: 890-1899-9
Matrix: Solid
Date Collected: 01/31/22 13:24
Date Received: 02/01/22 10:34
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		02/02/22 11:00	02/02/22 20:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 20:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 20:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/02/22 11:00	02/02/22 20:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 20:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/02/22 11:00	02/02/22 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*174*	*S1+*	*70 - 130*	*02/02/22 11:00*	*02/02/22 20:52*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*02/02/22 11:00*	*02/02/22 20:52*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 18:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*60*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 18:29*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 18:29*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH05

Date Collected: 01/31/22 13:24
Date Received: 02/01/22 10:34
Sample Depth: 0.5

Lab Sample ID: 890-1899-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.01		4.99		mg/Kg			02/05/22 04:32	1

Client Sample ID: BH05A

Date Collected: 01/31/22 13:30
Date Received: 02/01/22 10:34
Sample Depth: 3

Lab Sample ID: 890-1899-10
Matrix: Solid

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 21:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 21:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 21:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/02/22 11:00	02/02/22 21:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/02/22 11:00	02/02/22 21:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/02/22 11:00	02/02/22 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/02/22 11:00*	*02/02/22 21:12*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/02/22 11:00*	*02/02/22 21:12*	*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			02/07/22 15:34	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			02/07/22 16:46	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		02/02/22 14:36	02/05/22 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 18:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/02/22 14:36	02/05/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*02/02/22 14:36*	*02/05/22 18:51*	*1*
o-Terphenyl	*78*		*70 - 130*	*02/02/22 14:36*	*02/05/22 18:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.6		4.98		mg/Kg			02/05/22 04:38	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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)
880-10781-A-13-F MS	Matrix Spike	137 S1+	107
880-10781-A-13-G MSD	Matrix Spike Duplicate	116	83
890-1892-A-1-A MS	Matrix Spike	106	85
890-1892-A-1-B MSD	Matrix Spike Duplicate	99	101
890-1899-1	BH01	142 S1+	108
890-1899-2	BH01A	110	100
890-1899-3	BH02	115	97
890-1899-4	BH02A	103	84
890-1899-5	BH03	106	105
890-1899-6	BH03A	106	88
890-1899-7	BH04	121	96
890-1899-8	BH04A	131 S1+	107
890-1899-9	BH05	174 S1+	132 S1+
890-1899-10	BH05A	104	78
LCS 880-18258/1-A	Lab Control Sample	90	94
LCS 880-18304/1-A	Lab Control Sample	116	98
LCSD 880-18258/2-A	Lab Control Sample Dup	101	101
LCSD 880-18304/2-A	Lab Control Sample Dup	110	95
MB 880-18258/5-A	Method Blank	97	79
MB 880-18304/5-A	Method Blank	127	101

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)
890-1899-1	BH01	71	78
890-1899-1 MS	BH01	61 S1-	60 S1-
890-1899-1 MSD	BH01	68 S1-	67 S1-
890-1899-2	BH01A	55 S1-	61 S1-
890-1899-3	BH02	65 S1-	74
890-1899-4	BH02A	64 S1-	76
890-1899-5	BH03	69 S1-	77
890-1899-6	BH03A	66 S1-	74
890-1899-7	BH04	68 S1-	78
890-1899-8	BH04A	69 S1-	77
890-1899-9	BH05	60 S1-	67 S1-
890-1899-10	BH05A	68 S1-	78
LCS 880-18406/2-A	Lab Control Sample	91	96
LCSD 880-18406/3-A	Lab Control Sample Dup	86	89
MB 880-18406/1-A	Method Blank	72	85

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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	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*

Lab Sample ID: MB 880-18304/5-A
Matrix: Solid
Analysis Batch: 18332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18304

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/01/22 15:55	02/02/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/01/22 15:55	02/02/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/01/22 15:55	02/02/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/01/22 15:55	02/02/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/01/22 15:55	02/02/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/01/22 15:55	02/02/22 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/01/22 15:55*	*02/02/22 11:47*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/01/22 15:55*	*02/02/22 11:47*	*1*

Lab Sample ID: LCS 880-18304/1-A
Matrix: Solid
Analysis Batch: 18332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18304

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09003		mg/Kg		90	70 - 130		
Toluene			0.100	0.08941		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.09570		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1813		mg/Kg		91	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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

Lab Sample ID: LCS 880-18304/1-A
Matrix: Solid
Analysis Batch: 18332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18304

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.09235		mg/Kg		92	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 880-18304/2-A
Matrix: Solid
Analysis Batch: 18332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18304

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07256		mg/Kg		73	70 - 130	21	35
Toluene			0.100	0.08402		mg/Kg		84	70 - 130	6	35
Ethylbenzene			0.100	0.09237		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1772		mg/Kg		89	70 - 130	2	35
o-Xylene			0.100	0.08689		mg/Kg		87	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-10781-A-13-F MS
Matrix: Solid
Analysis Batch: 18332

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 18304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F2 F1	0.0998	0.07646		mg/Kg		77	70 - 130		
Toluene	<0.00199	U F2 F1	0.0998	0.08485		mg/Kg		85	70 - 130		
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.09338		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1752		mg/Kg		88	70 - 130		
o-Xylene	<0.00199	U F1	0.0998	0.09049		mg/Kg		91	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-10781-A-13-G MSD
Matrix: Solid
Analysis Batch: 18332

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 18304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.100	0.05244	F2 F1	mg/Kg		52	70 - 130	37	35
Toluene	<0.00199	U F2 F1	0.100	0.05902	F2 F1	mg/Kg		59	70 - 130	36	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06182	F2 F1	mg/Kg		62	70 - 130	41	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1206	F2 F1	mg/Kg		60	70 - 130	37	35
o-Xylene	<0.00199	U F1	0.100	0.06909	F1	mg/Kg		69	70 - 130	27	35

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

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

Lab Sample ID: 880-10781-A-13-G MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18332 **Prep Batch: 18304**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

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

Lab Sample ID: MB 880-18406/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18623 **Prep Batch: 18406**

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		02/02/22 14:36	02/05/22 13:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 13:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/02/22 14:36	02/05/22 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	02/02/22 14:36	02/05/22 13:43	1
o-Terphenyl	85		70 - 130	02/02/22 14:36	02/05/22 13:43	1

Lab Sample ID: LCS 880-18406/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18623 **Prep Batch: 18406**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	694.9	*-	mg/Kg		69	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	953.7		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-18406/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18623 **Prep Batch: 18406**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	785.5		mg/Kg		79	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	996.3		mg/Kg		100	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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

Lab Sample ID: 890-1899-1 MS
Matrix: Solid
Analysis Batch: 18623

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 18406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	1000	798.7		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	918.7		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*61*	*S1-*	*70 - 130*
o-Terphenyl	*60*	*S1-*	*70 - 130*

Lab Sample ID: 890-1899-1 MSD
Matrix: Solid
Analysis Batch: 18623

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 18406

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	810.1		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1057		mg/Kg		106	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*68*	*S1-*	*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1896-A-1-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	114	F1	248	399.7	F1	mg/Kg		116	90 - 110

Lab Sample ID: 890-1896-A-1-B 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	114	F1	248	343.9		mg/Kg		93	90 - 110	15	20

Lab Sample ID: MB 880-18570/1-A
Matrix: Solid
Analysis Batch: 18622

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			02/05/22 03:55	1

Lab Sample ID: LCS 880-18570/2-A
Matrix: Solid
Analysis Batch: 18622

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	267.9		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-18570/3-A
Matrix: Solid
Analysis Batch: 18622

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	246.7		mg/Kg		99	90 - 110	8	20

Lab Sample ID: 890-1899-8 MS
Matrix: Solid
Analysis Batch: 18622

Client Sample ID: BH04A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	109	F1	250	345.0		mg/Kg		95	90 - 110

Lab Sample ID: 890-1899-8 MSD
Matrix: Solid
Analysis Batch: 18622

Client Sample ID: BH04A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	109	F1	250	397.0	F1	mg/Kg		115	90 - 110	14	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

GC VOA

Prep Batch: 18258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Total/NA	Solid	5035	
890-1899-2	BH01A	Total/NA	Solid	5035	
890-1899-3	BH02	Total/NA	Solid	5035	
890-1899-4	BH02A	Total/NA	Solid	5035	
890-1899-5	BH03	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	

Prep Batch: 18304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-6	BH03A	Total/NA	Solid	5035	
890-1899-7	BH04	Total/NA	Solid	5035	
890-1899-8	BH04A	Total/NA	Solid	5035	
890-1899-9	BH05	Total/NA	Solid	5035	
890-1899-10	BH05A	Total/NA	Solid	5035	
MB 880-18304/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18304/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18304/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10781-A-13-F MS	Matrix Spike	Total/NA	Solid	5035	
880-10781-A-13-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Total/NA	Solid	8021B	18258
890-1899-2	BH01A	Total/NA	Solid	8021B	18258
890-1899-3	BH02	Total/NA	Solid	8021B	18258
890-1899-4	BH02A	Total/NA	Solid	8021B	18258
890-1899-5	BH03	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: 18332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-6	BH03A	Total/NA	Solid	8021B	18304
890-1899-7	BH04	Total/NA	Solid	8021B	18304
890-1899-8	BH04A	Total/NA	Solid	8021B	18304
890-1899-9	BH05	Total/NA	Solid	8021B	18304
890-1899-10	BH05A	Total/NA	Solid	8021B	18304
MB 880-18304/5-A	Method Blank	Total/NA	Solid	8021B	18304
LCS 880-18304/1-A	Lab Control Sample	Total/NA	Solid	8021B	18304
LCSD 880-18304/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18304
880-10781-A-13-F MS	Matrix Spike	Total/NA	Solid	8021B	18304
880-10781-A-13-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18304

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

GC VOA

Analysis Batch: 18770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Total/NA	Solid	Total BTEX	
890-1899-2	BH01A	Total/NA	Solid	Total BTEX	
890-1899-3	BH02	Total/NA	Solid	Total BTEX	
890-1899-4	BH02A	Total/NA	Solid	Total BTEX	
890-1899-5	BH03	Total/NA	Solid	Total BTEX	
890-1899-6	BH03A	Total/NA	Solid	Total BTEX	
890-1899-7	BH04	Total/NA	Solid	Total BTEX	
890-1899-8	BH04A	Total/NA	Solid	Total BTEX	
890-1899-9	BH05	Total/NA	Solid	Total BTEX	
890-1899-10	BH05A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Total/NA	Solid	8015NM Prep	
890-1899-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1899-3	BH02	Total/NA	Solid	8015NM Prep	
890-1899-4	BH02A	Total/NA	Solid	8015NM Prep	
890-1899-5	BH03	Total/NA	Solid	8015NM Prep	
890-1899-6	BH03A	Total/NA	Solid	8015NM Prep	
890-1899-7	BH04	Total/NA	Solid	8015NM Prep	
890-1899-8	BH04A	Total/NA	Solid	8015NM Prep	
890-1899-9	BH05	Total/NA	Solid	8015NM Prep	
890-1899-10	BH05A	Total/NA	Solid	8015NM Prep	
MB 880-18406/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18406/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18406/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1899-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-1899-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Total/NA	Solid	8015B NM	18406
890-1899-2	BH01A	Total/NA	Solid	8015B NM	18406
890-1899-3	BH02	Total/NA	Solid	8015B NM	18406
890-1899-4	BH02A	Total/NA	Solid	8015B NM	18406
890-1899-5	BH03	Total/NA	Solid	8015B NM	18406
890-1899-6	BH03A	Total/NA	Solid	8015B NM	18406
890-1899-7	BH04	Total/NA	Solid	8015B NM	18406
890-1899-8	BH04A	Total/NA	Solid	8015B NM	18406
890-1899-9	BH05	Total/NA	Solid	8015B NM	18406
890-1899-10	BH05A	Total/NA	Solid	8015B NM	18406
MB 880-18406/1-A	Method Blank	Total/NA	Solid	8015B NM	18406
LCS 880-18406/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18406
LCSD 880-18406/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18406
890-1899-1 MS	BH01	Total/NA	Solid	8015B NM	18406
890-1899-1 MSD	BH01	Total/NA	Solid	8015B NM	18406

QC Association Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

GC Semi VOA

Analysis Batch: 18777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Total/NA	Solid	8015 NM	
890-1899-2	BH01A	Total/NA	Solid	8015 NM	
890-1899-3	BH02	Total/NA	Solid	8015 NM	
890-1899-4	BH02A	Total/NA	Solid	8015 NM	
890-1899-5	BH03	Total/NA	Solid	8015 NM	
890-1899-6	BH03A	Total/NA	Solid	8015 NM	
890-1899-7	BH04	Total/NA	Solid	8015 NM	
890-1899-8	BH04A	Total/NA	Solid	8015 NM	
890-1899-9	BH05	Total/NA	Solid	8015 NM	
890-1899-10	BH05A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Soluble	Solid	DI Leach	
890-1899-2	BH01A	Soluble	Solid	DI Leach	
890-1899-3	BH02	Soluble	Solid	DI Leach	
890-1899-4	BH02A	Soluble	Solid	DI Leach	
890-1899-5	BH03	Soluble	Solid	DI Leach	
890-1899-6	BH03A	Soluble	Solid	DI Leach	
890-1899-7	BH04	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	
890-1896-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1896-A-1-B MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 18570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-8	BH04A	Soluble	Solid	DI Leach	
890-1899-9	BH05	Soluble	Solid	DI Leach	
890-1899-10	BH05A	Soluble	Solid	DI Leach	
MB 880-18570/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18570/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18570/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1899-8 MS	BH04A	Soluble	Solid	DI Leach	
890-1899-8 MSD	BH04A	Soluble	Solid	DI Leach	

Analysis Batch: 18607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-1	BH01	Soluble	Solid	300.0	18363
890-1899-2	BH01A	Soluble	Solid	300.0	18363
890-1899-3	BH02	Soluble	Solid	300.0	18363
890-1899-4	BH02A	Soluble	Solid	300.0	18363
890-1899-5	BH03	Soluble	Solid	300.0	18363
890-1899-6	BH03A	Soluble	Solid	300.0	18363
890-1899-7	BH04	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

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1899-1
Project/Site: Trinity Burrus Unit #011 SDG: 31403471.006

HPLC/IC (Continued)

Analysis Batch: 18607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1896-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	18363
890-1896-A-1-B MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18363

Analysis Batch: 18622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1899-8	BH04A	Soluble	Solid	300.0	18570
890-1899-9	BH05	Soluble	Solid	300.0	18570
890-1899-10	BH05A	Soluble	Solid	300.0	18570
MB 880-18570/1-A	Method Blank	Soluble	Solid	300.0	18570
LCS 880-18570/2-A	Lab Control Sample	Soluble	Solid	300.0	18570
LCSD 880-18570/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18570
890-1899-8 MS	BH04A	Soluble	Solid	300.0	18570
890-1899-8 MSD	BH04A	Soluble	Solid	300.0	18570

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH01

Date Collected: 01/31/22 12:53
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18258	02/02/22 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18331	02/02/22 20:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 14:49	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	02/05/22 00:26	CH	XEN MID

Client Sample ID: BH01A

Date Collected: 01/31/22 12:59
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	18258	02/02/22 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18331	02/02/22 20:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/05/22 00:45	CH	XEN MID

Client Sample ID: BH02

Date Collected: 01/31/22 13:03
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18258	02/02/22 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18331	02/02/22 20:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/05/22 00:51	CH	XEN MID

Client Sample ID: BH02A

Date Collected: 01/31/22 13:07
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18258	02/02/22 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18331	02/02/22 21:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH02A

Date Collected: 01/31/22 13:07
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-4

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			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 16:39	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	02/05/22 00:57	CH	XEN MID

Client Sample ID: BH03

Date Collected: 01/31/22 13:09
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	18258	02/02/22 14:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18331	02/02/22 21:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/05/22 01:03	CH	XEN MID

Client Sample ID: BH03A

Date Collected: 01/31/22 13:15
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	18304	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18332	02/02/22 19:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/05/22 01:09	CH	XEN MID

Client Sample ID: BH04

Date Collected: 01/31/22 13:17
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18304	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18332	02/02/22 20:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 17:46	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Client Sample ID: BH04
Date Collected: 01/31/22 13:17
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-7
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			5 g	50 mL	18363	02/04/22 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			18607	02/05/22 01:15	CH	XEN MID

Client Sample ID: BH04A
Date Collected: 01/31/22 13:21
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18304	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18332	02/02/22 20:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18570	02/04/22 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			18622	02/05/22 04:14	CH	XEN MID

Client Sample ID: BH05
Date Collected: 01/31/22 13:24
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	18304	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18332	02/02/22 20:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18570	02/04/22 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			18622	02/05/22 04:32	CH	XEN MID

Client Sample ID: BH05A
Date Collected: 01/31/22 13:30
Date Received: 02/01/22 10:34

Lab Sample ID: 890-1899-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18304	02/02/22 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	18332	02/02/22 21:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18770	02/07/22 15:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18777	02/07/22 16:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18406	02/02/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18623	02/05/22 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18570	02/04/22 12:40	CH	XEN MID
Soluble	Analysis	300.0		1			18622	02/05/22 04:38	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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 Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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 Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

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 Unit #011

Job ID: 890-1899-1
SDG: 31403471.006

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1899-1	BH01	Solid	01/31/22 12:53	02/01/22 10:34	0.5
890-1899-2	BH01A	Solid	01/31/22 12:59	02/01/22 10:34	3
890-1899-3	BH02	Solid	01/31/22 13:03	02/01/22 10:34	0.5
890-1899-4	BH02A	Solid	01/31/22 13:07	02/01/22 10:34	3
890-1899-5	BH03	Solid	01/31/22 13:09	02/01/22 10:34	0.5
890-1899-6	BH03A	Solid	01/31/22 13:15	02/01/22 10:34	3
890-1899-7	BH04	Solid	01/31/22 13:17	02/01/22 10:34	0.5
890-1899-8	BH04A	Solid	01/31/22 13:21	02/01/22 10:34	3
890-1899-9	BH05	Solid	01/31/22 13:24	02/01/22 10:34	0.5
890-1899-10	BH05A	Solid	01/31/22 13:30	02/01/22 10:34	3

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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)
www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	WSP USA Inc., Permian office	Company Name:	
Address:	3300 North A St. Bldg 1, Unit 222	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	(432) 704-5178 Email:	travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@w	

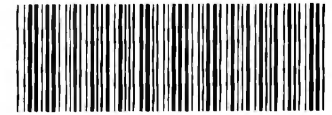
Work Order Comments

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

Project Name:	Trinity Burrus Unit #011	Turn Around	
Project Number:	31403471.006	Routine X	
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.2/0.8	Thermometer ID	
Received Intact:	Yes No	NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST



Work Order Notes

IN: NTO1419040759
CC:
API: #30-025-36038

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
BH01	S	1/31/2022	12:53	0.5	1	x	x	x	Composite
BH01A	S	1/31/2022	12:59	3	1	x	x	x	Composite
BH02	S	1/31/2022	13:03	0.5	1	x	x	x	Composite
BH02A	S	2/1/2022	13:07	3	1	x	x	x	Composite
BH03	S	2/2/2022	13:09	0.5	1	x	x	x	Composite
BH03A	S	2/3/2022	13:15	3	1	x	x	x	Composite
BH04	S	2/4/2022	13:17	0.5	1	x	x	x	Composite
BH04A	S	2/5/2022	13:21	3	1	x	x	x	Composite
BH05	S	2/6/2022	13:24	0.5	1	x	x	x	Composite
BH05A	S	2/7/2022	13:30	3	1	x	x	x	Composite

Total 200.7 / 6010 **200.8 / 6020:** 1.31.22 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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

per permission

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2-1-22/4:00	2			2.1.22 1034
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1899-1
SDG Number: 31403471.006

Login Number: 1899
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: 890-1899-1
SDG Number: 31403471.006

Login Number: 1899
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 02/02/22 01:36 PM

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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

CONDITIONS

Action 83012

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 83012
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/21/2022