

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	NAPP2113750980
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email kyle.littrell@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.01804 Longitude -103.93638
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ross Draw 25 N	Site Type Battery
Date Release Discovered 05/03/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	25	26S	29E	Eddy

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) 6.72	Volume Recovered (bbls) 6.00
	Is the concentration of total dissolved solids (TDS) 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 LO identified fluids leaking from a 4" Victaulic elbow connection caused by internal corrosion. A third-party contractor has been retained for remediation activities.

Form C-141

State of New Mexico
Oil Conservation Division

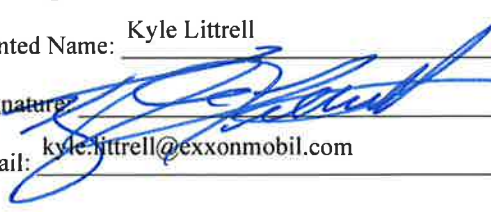
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? NA
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NA	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kyle Littrell</u>	Title: <u>Environmental Manager</u>
Signature: 	Date: <u>5-17-21</u>
email: <u>kyle.littrell@exxonmobil.com</u>	Telephone: <u>432-221-7331</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Location:	Ross Draw 25 North	
Spill Date:	5/3/2021	
Area 1		
Approximate Area =	3212.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.72	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.72	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.00	bbls

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Site Assessment/Characterization

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

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

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

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

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

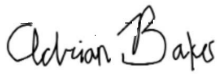
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature:  Date: 08/01/2021

email: adrian.baker@exxonmobil.com Telephone: (432)-236 - 3808

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2113750980
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Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 08/01/2021

email: adrian.baker@exxonmobil.com Telephone: (432)-236 - 3808

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NAPP2113750980
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Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 08/01/2021

email: adrian.baker@exxonmobil.com Telephone: (432)-236 - 3808

OCD Only

Received by: Robert Hamlet Date: 10/21/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Robert Hamlet Date: 10/21/2021



WSP USA

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

August 1, 2021

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

**RE: Deferral Request
 Ross Draw 25 North
 Incident Number NAPP2113750980
 Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling, and excavation activities at the Ross Draw 25 North (Site) in Unit B, Section 25, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on field observations, field screening activities, and soil sample analytical results, XTO is submitting this Deferral Request, describing remediation that has occurred and requesting deferral of final remediation for Incident Number NAPP2113750980 until the Site is reconstructed, and/or the well pad is abandoned.

RELEASE BACKGROUND

On May 03, 2021, a leak from a corroded Victaulic elbow connection was discovered. Approximately 6.72 barrels (bbls) of produced water released onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 6 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on May 17, 2021. The release was assigned Incident Number NAPP2113750980.

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 between 50 and 100 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 320154103562301, located approximately 5,099 feet north-northwest of the Site. The groundwater well was most recently measured in January 1998 has a reported depth to



groundwater of 66 feet bgs and a total depth of 200 feet bgs. Ground surface elevation at the groundwater well location is 2,973 feet above mean sea level (amsl), which is approximately 11 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 402 feet south-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 underlain by unstable geology (high 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: 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On June 17, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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



Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that chloride concentrations exceeded the Closure Criteria; benzene, BTEX, and TPH concentrations were compliant. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation and delineation activities were warranted.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Between June 28, 2021 and July 6, 2021, WSP personnel were at the Site to oversee excavation and delineation activities.

Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a backhoe, transport vehicle, and hydrovac. The excavation occurred on the well pad near the production equipment. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Photographic documentation is included in Attachment 2.

Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples representing at least 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS19 were collected from the floor of the excavation from depths ranging from 1 foot to 5 feet bgs. Composite soil samples SW01 through SW12 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 5 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation sidewall samples SW01, SW02, and SW05 through SW12, and floor samples FS02 through FS19 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation sidewall samples SW03 and SW04 and floor sample FS01 indicated that chloride concentrations exceeded the Closure Criteria. Additional soil was removed from the area around sidewall sample SW04 and subsequent sidewall sample SW12 was compliant. Further excavation around samples SW03 and FS01 was limited by the presence of active production equipment. XTO safety policy restricts soil disturbing activities to a 2-foot radius of any on-site production equipment. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 4,093 square feet. A total of approximately 316 cubic yards of impacted soil was removed during the excavation activities. The impacted soil



was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

Borehole BH01 and potholes PH01 through PH06 were advanced to depths ranging from 4 feet to 5 feet bgs within and around the release extent to define the lateral and vertical extent of impacted soil left in place adjacent to the production equipment. Delineation soil samples were collected from the borehole and potholes from depths ranging from 1 foot to 5 feet bgs. Soil from the borehole and potholes was field screened for volatile aromatic hydrocarbons and chloride using a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the borehole and potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above. The borehole, potholes, and delineation soil sample locations are depicted on Figure 4.

Laboratory analytical results for the final delineation soil samples collected from borehole BH01 and potholes PH01 through PH06 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Borehole sample BH01 collected at 1 foot bgs, and pothole samples PH03A and PH03C collected at 2 feet and 4 feet bgs, exceeded the Closure Criteria for chloride and were subsequently excavated. Final vertical delineation samples BH01A and PH03D were compliant with the Closure Criteria. Based on the laboratory analytical results, the impacted soil left in place was successfully defined and did not exceed a depth of 5 feet bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

DEFERRAL REQUEST

A total of approximately 316 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place immediately adjacent to active production equipment. XTO safety policy restricts earth moving activities within 2 feet of active production equipment. This XTO safety policy is established to protect workers and reduce the likelihood of compromising the foundation of the production equipment. This policy was enforced where impacted soil was identified within 2 feet of the production equipment in excavation sidewall samples SW03 and FS01.

The impacted soil remaining in place is delineated vertically and laterally by excavation soil samples SW02, SW05, SW07, SW12, FS06, FS07, FS09 and FS19, collected from the sidewalls and the floor of the final excavation extent, and delineation soil samples collected from borehole BH01 and potholes PH01 through PH06. An estimated 161 cubic yards of impacted soil remain in place, assuming a maximum depth of 5 feet bgs based on the excavation and delineation soil samples listed above that were compliant with the Closure Criteria. The deferral request area is shown on the attached Figure 4.

District II
Page 5

XTO requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The majority of the released fluids were recovered during initial response activities and the impacted soil remaining in place is limited to the area immediately adjacent to the production equipment. XTO requests deferral of final remediation for Incident Number NAPP2113750980.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Elliot Lee'.

Elliot Lee
Environmental Scientist

A handwritten signature in black ink, appearing to read 'Ashley L. Ager'.

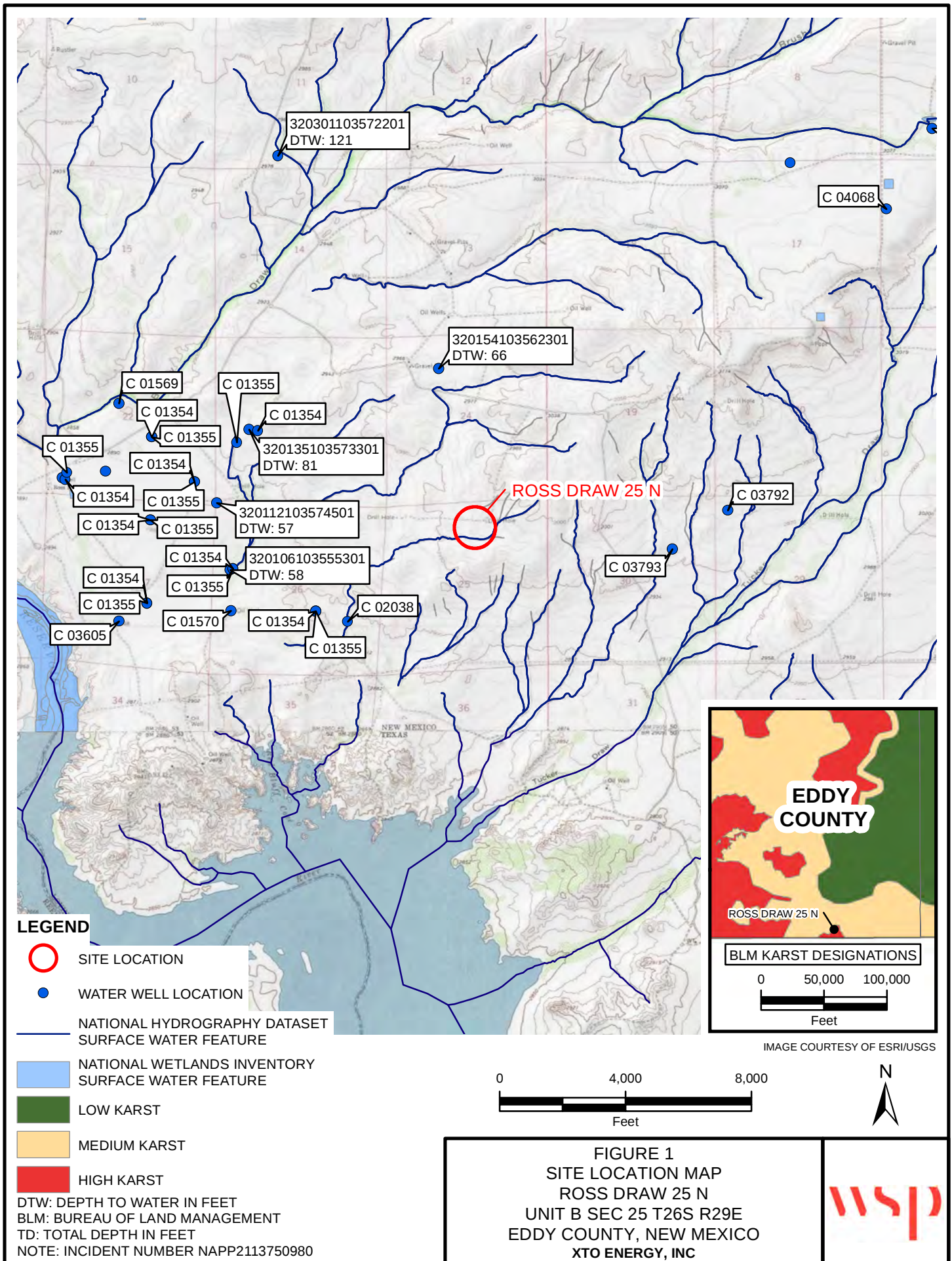
Ashley L. Ager, P.G.
Managing Director, Geologist

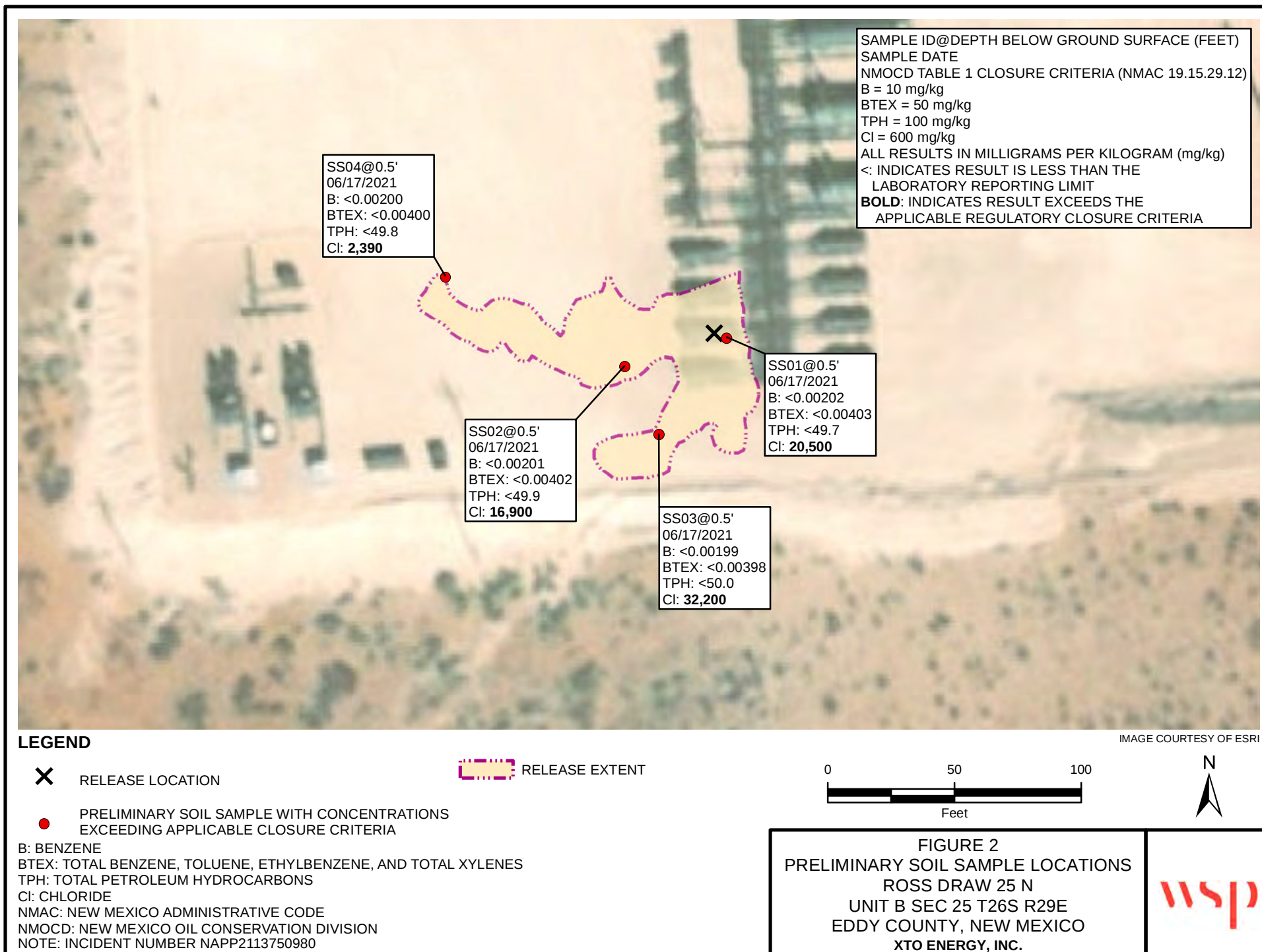
cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

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

FIGURES





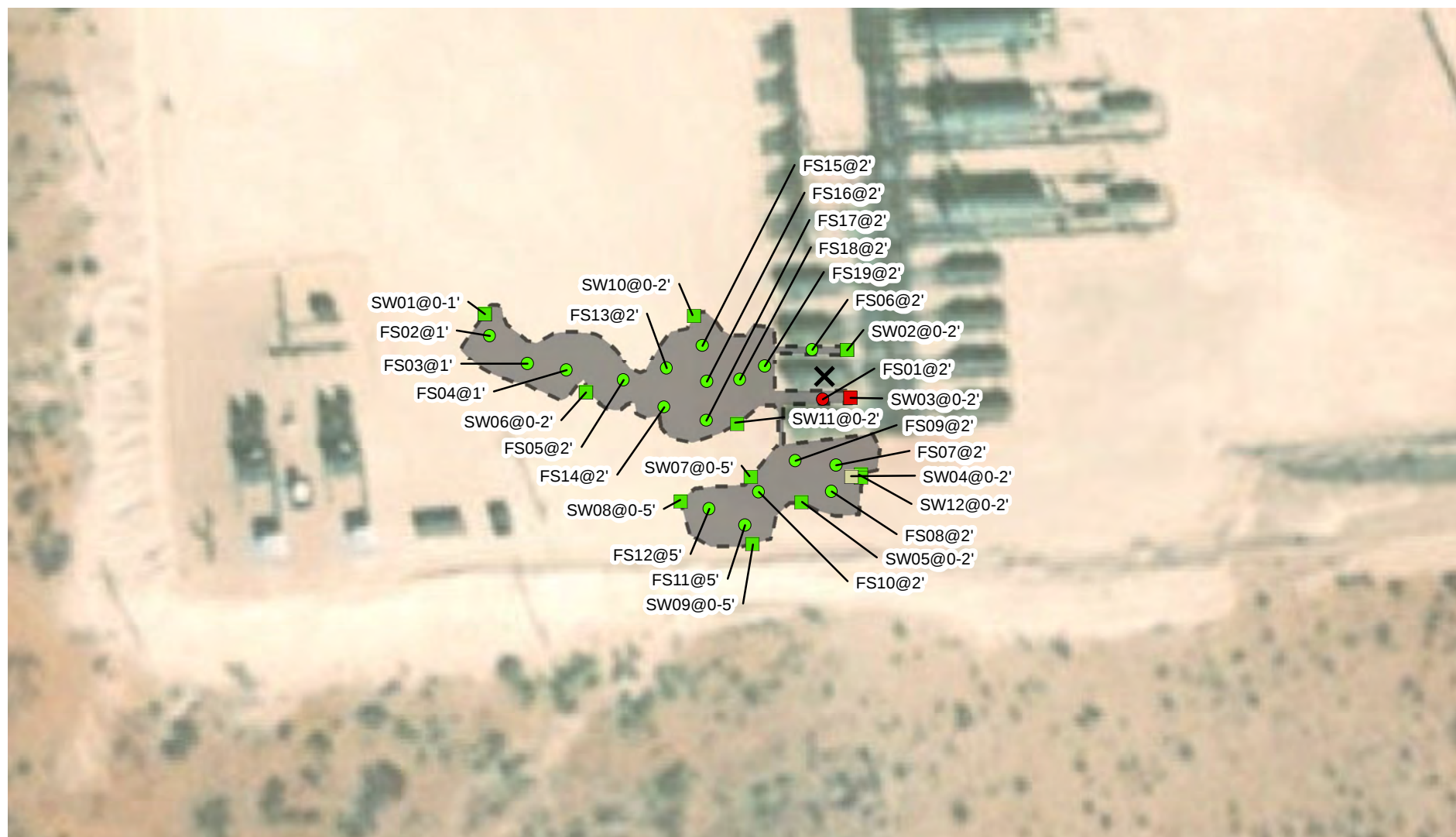


IMAGE COURTESY OF ESRI

LEGEND

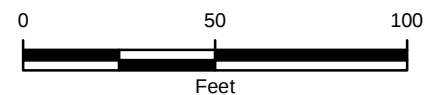
- X** RELEASE LOCATION
- FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA

■ SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED

● FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

■ SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

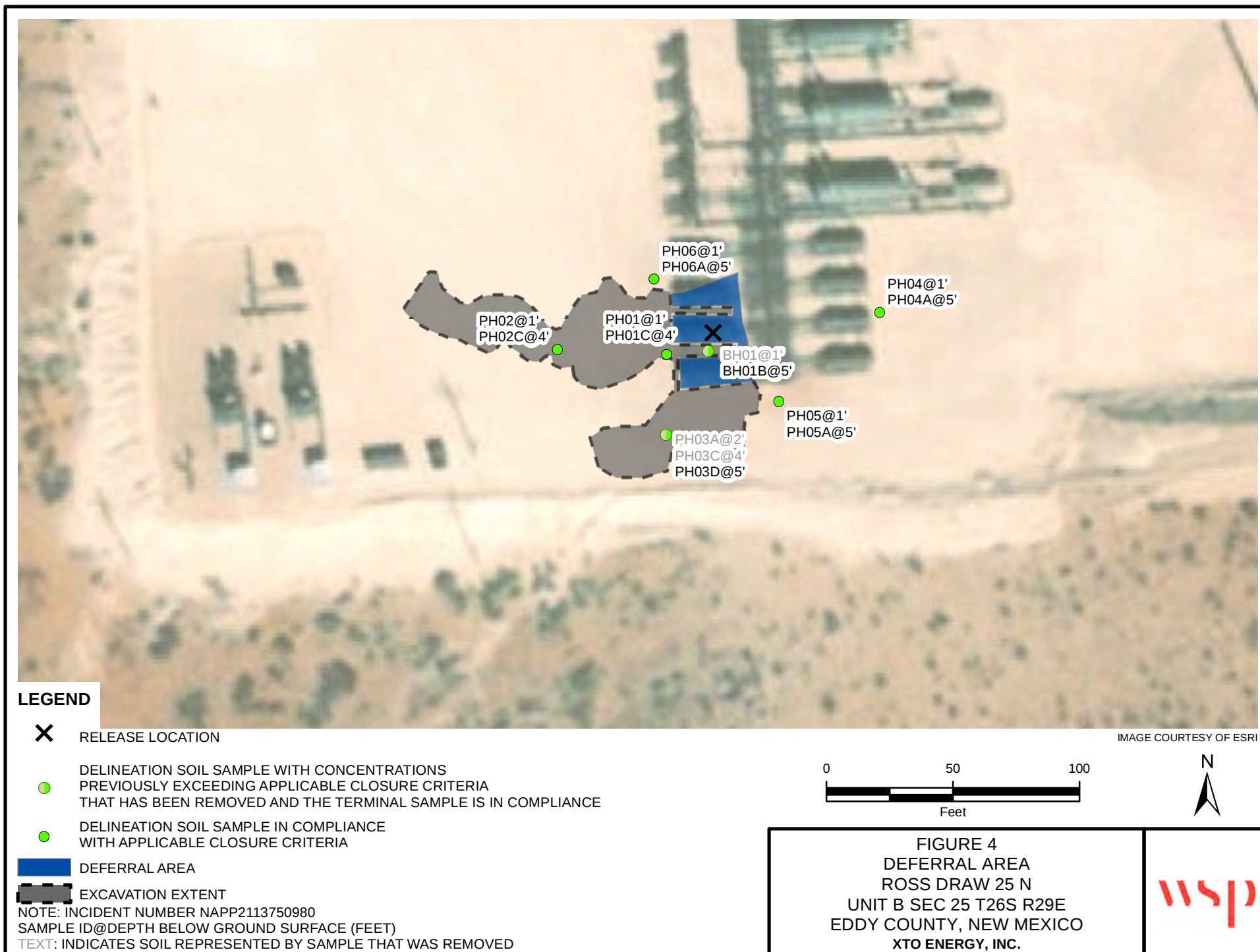
■ EXCAVATION EXTENT



NOTE: INCIDENT NUMBER NAPP2113750980
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
ROSS DRAW 25 N
UNIT B SEC 25 T26S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.





P:\XTO Energy\GIS\MXD\31403236.014.0129_ROSS DRAW 25 N\31403236.014_FIG04_DEFERRAL_2021_1.mxd

TABLES

Table 1

Soil Analytical Results
Ross Draw 25 N
Incident Number : NAPP2113750980
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	06/17/2021	0.5	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	20,500
SS02	06/17/2021	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	16,900
SS03	06/17/2021	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	32,200
SS04	06/17/2021	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	2,390
Delineation Samples										
BH01	6/28/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,000
BH01B	6/28/2021	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	150
PH01	6/25/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	567
PH01C	6/25/2021	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	188
PH02	6/25/2021	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	337
PH02C	6/25/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	11.1
PH03A	6/25/2021	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	762
PH03C	6/25/2021	4	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	1,010
PH03D	6/25/2021	5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	121
PH04	7/6/2021	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	474
PH04A	7/6/2021	5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5.11
PH05	7/6/2021	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	258
PH05A	7/6/2021	5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	24.9
PH06	7/6/2021	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	393
PH06A	7/6/2021	5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	42.3

Table 1

Soil Analytical Results
Ross Draw 25 N
Incident Number : NAPP2113750980
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Samples										
FS01	6/25/2021	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,150
FS02	6/28/2021	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	248
FS03	6/28/2021	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	209
FS04	6/28/2021	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	173
FS05	6/28/2021	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	72.3
FS06	6/30/2021	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	36.1
FS07	6/30/2021	2	<0.00200	<0.00399	<50.0	<49.9	<49.9	<49.9	<49.9	432
FS08	6/30/2021	2	<0.00200	<0.00399	<49.8	<50.0	<50.0	<50.0	<50.0	146
FS09	6/30/2021	2	<0.00200	<0.00401	<50.0	<49.8	<49.8	<49.8	<49.8	51.9
FS10	6/30/2021	2	<0.00202	<0.00403	<49.9	<50.0	<50.0	<50.0	<50.0	107
FS11	7/1/2021	5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	53.0
FS12	7/1/2021	5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	10.9
FS13	7/1/2021	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	294
FS14	7/1/2021	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	269
FS15	7/1/2021	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	162
FS16	7/1/2021	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	494
FS17	7/1/2021	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	144
FS18	7/1/2021	2	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	415
FS19	7/1/2021	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	135

Table 1

Soil Analytical Results
 Ross Draw 25 N
 Incident Number : NAPP2113750980
 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Sidewall Samples										
SW01	6/25/2021	0 - 1	<0.00199	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	197
SW02	6/30/2021	0 - 2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	212
SW03	6/30/2021	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,160
SW04	6/30/2021	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	696
SW05	6/30/2021	0 - 2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	552
SW06	7/1/2021	0 - 2	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	28.4
SW07	7/1/2021	0-5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	140
SW08	7/1/2021	0-5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	41.9
SW09	7/1/2021	0-5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	176
SW10	7/1/2021	0-2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	238
SW11	7/1/2021	0-2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	235
SW12	7/1/2021	0-2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	205

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline 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



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Site Information ▼

Geographic Area:

United States ▼

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USGS 320154103562301 26S.29E.22.23341

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°01'54", Longitude 103°56'23" NAD27

Eddy County, New Mexico , Hydrologic Unit 13070001

Well depth: 200 feet

Land surface altitude: 2,974 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1975-12-09	1998-01-22	8
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

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Title: NWIS Site Information for USA: Site Inventory

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320154103562301)

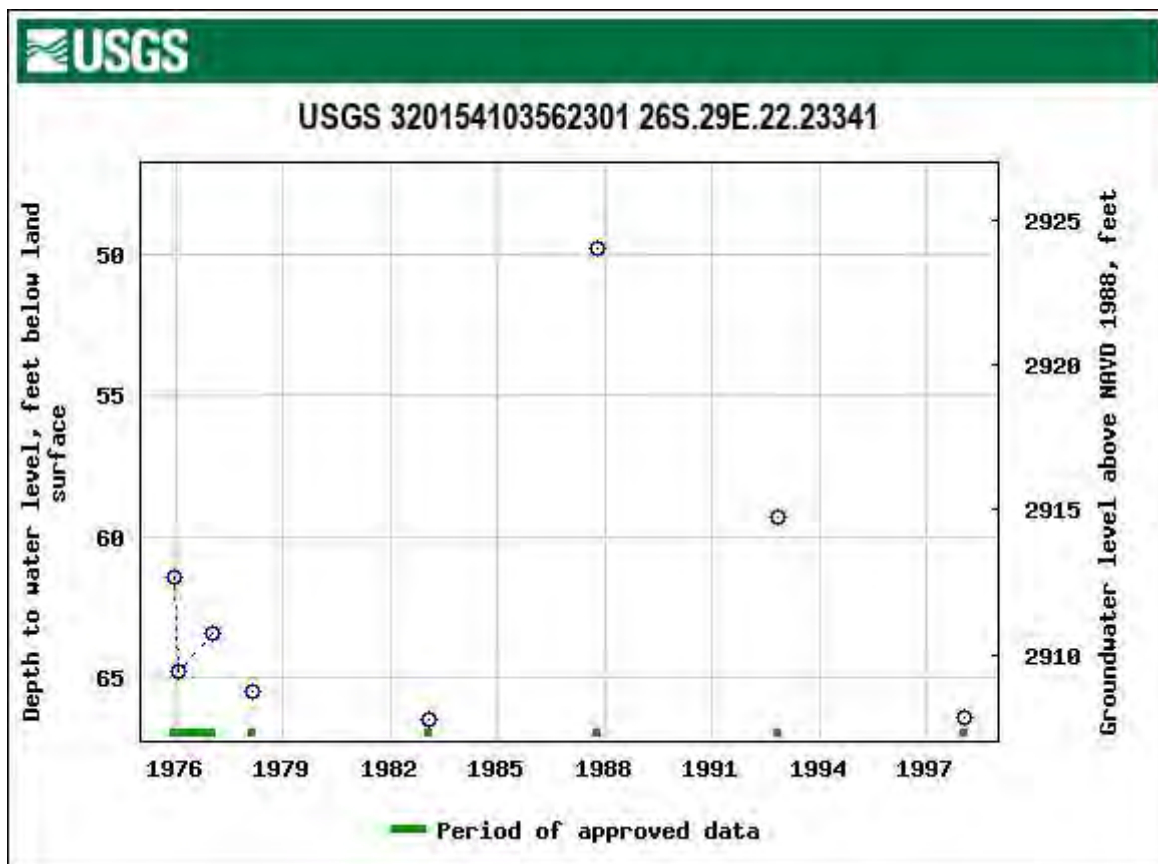
[agency_code=USGS&site_no=320154103562301](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320154103562301)



Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2021-06-07 11:19:20 EDT

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New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 01360 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: IND INDUSTRIAL
Primary Status: DCL DECLARATION
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: EL PASO NATURAL GAS
Contact: PAULA JOY

Documents on File

Trn #	Doc	File/Act	Status			From/ To	Acres	Diversion	Consumptive
			1	2	Transaction Desc.				
460091	COWNF	2010-05-26	CHG	PRC	C 01360	T	0	0	
203459	DCL	1953-11-17	DCL	PRC	C 01360	T	0	0	

Current Points of Diversion

POD Number	Well Tag	Source	Q					X	Y	Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng		
C 01360		Shallow	4	3	3	05	26S	30E	602997	3548152

Place of Use

Q Q															
256	64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other	Location	Desc
							0	0		IND		DCL	NO PLACE OF USE GIVEN.		

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	0		IND		GW

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6/7/21 11:09 AM

 WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number****Q64 Q16 Q4 Sec Tws Rng****X****Y**

C 01360

4 3 3 05 26S 30E 602997 3548152 **Driller License:** 95**Driller Company:** FOLK DRILLING CO.**Driller Name:****Drill Start Date:** 04/26/1952**Drill Finish Date:** 05/15/1952**Plug Date:****Log File Date:** 11/17/1953**PCW Rev Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 12.75**Depth Well:** 770 feet**Depth Water:** 173 feet**Water Bearing Stratifications:****Top Bottom Description**

210 220 Sandstone/Gravel/Conglomerate

580 585 Sandstone/Gravel/Conglomerate

665 710 Sandstone/Gravel/Conglomerate

725 770 Sandstone/Gravel/Conglomerate

Casing Perforations:**Top Bottom**

180 289

538 770

Meter Number: 16557**Meter Make:** SIEMENS**Meter Serial Number:** L1254823**Meter Multiplier:** 100.0000**Number of Dials:** 8**Meter Type:** Diversion**Unit of Measure:** Gallons**Return Flow Percent:****Usage Multiplier:****Reading Frequency:** Quarterly**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
07/01/2014	2014	234997	A	RPT		0
09/30/2014	2014	354169	A	RPT		36.573
11/20/2014	2014	7281000	A	RPT		0
12/31/2014	2014	11430100	A	RPT		12.733
04/01/2015	2015	22535200	A	RPT		34.080
07/01/2015	2015	35821800	A	RPT		40.775
10/05/2015	2015	46631200	A	RPT		33.173
12/31/2015	2015	55653200	A	RPT		27.688
01/31/2016	2016	58047600	A	RPT		7.348
02/29/2016	2016	61081100	A	RPT		9.309
03/31/2016	2016	62593100	A	RPT		4.640
06/30/2016	2016	71642600	A	RPT		27.772
10/03/2016	2016	81998399	A	RPT		31.781
12/31/2016	2016	90558600	A	RPT		26.270
04/04/2019	2019	164290087	A	RPT		226.274
10/02/2019	2019	790380	A	RPT	METER CHANGE OUT	0

					07/2019	
01/02/2020	2020	1733720	A	RPT		289.500
04/07/2021	2021	36814117	A	WEB		10765.779 X
x						
**YTD Meter Amounts:		Year			Amount	
		2014			49.306	
		2015			135.716	
		2016			107.120	
		2019			226.274	
		2020			289.500	
		2021			10765.779	
x						
Meter Number:		16558	Meter Make:		MASTERMETER	
Meter Serial Number:		32530403	Meter Multiplier:		100.0000	
Number of Dials:		6	Meter Type:		Diversion	
Unit of Measure:		Gallons	Return Flow Percent:			
Usage Multiplier:			Reading Frequency:			
x						
Meter Readings (in Acre-Feet)						
Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/01/2014	2014	354169	A	RPT		0
11/20/2014	2014	415555	A	RPT		18.839
11/21/2014	2014	72810	A	RPT		0
12/31/2014	2014	112178	A	RPT		12.082
02/01/2015	2015	147039	A	RPT		10.698
03/02/2015	2015	188133	A	RPT		12.611
04/01/2015	2015	224102	A	RPT		11.038
04/30/2015	2015	270723	A	RPT		14.307
05/31/2015	2015	315628	A	tw		13.781
07/01/2015	2015	369075	A	tw		16.402
08/01/2015	2015	395528	A	tw		8.118
08/31/2015	2015	455361	A	tw		18.362
10/01/2015	2015	466312	A	RPT		3.361
x						
**YTD Meter Amounts:		Year			Amount	
		2014			30.921	
		2015			108.678	
x						

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

6/7/21 11:10 AM

POINT OF DIVERSION SUMMARY

ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy, Inc	Ross Draw 25 North Eddy County, New Mexico	NAPP2113750980

Photo No.	Date	
1	June 28th, 2021	
Release extent facing northeast.		

Photo No.	Date	
2	July 6th, 2021	
View of PH04 facing south		



PHOTOGRAPHIC LOG		
XTO Energy, Inc	Ross Draw 25 North Eddy County, New Mexico	NAPP2113750980

Photo No.	Date	
3	June 28th, 2021	
View of western portion of excavation, facing east		 A photograph showing a large, deep excavation site. The ground is uneven and covered in loose soil and rocks. In the background, several pieces of heavy machinery, including what appear to be drilling rigs or pumps, are parked on a flat area. The sky is clear and blue.

Photo No.	Date	
4	July 1st, 2021	
View of southern portion of excavation, facing northeast.		 A photograph showing a different view of the excavation site. The foreground shows a steep, eroded bank of soil and rocks. In the background, there are large industrial tanks or storage drums, and more heavy machinery. The sky is blue with scattered white clouds.

**PHOTOGRAPHIC LOG****XTO Energy, Inc****Ross Draw 25 North
Eddy County, New Mexico****NAPP2113750980**

Photo No.	Date	
5	July 6th, 2021	
View of western portion of excavation, facing north.		 A photograph showing a large, rectangular excavation pit filled with light-colored sand and gravel. In the background, there is an industrial facility with several large, dark-colored storage tanks and complex piping. A yellow skid steer loader is parked on the left side of the excavation. The sky is blue with scattered white clouds.

Photo No.	Date	
6	July 9th, 2021	
View of backfilled excavation facing east.		 A photograph showing a wide, flat, sandy area that appears to be a backfilled excavation. In the background, there is an industrial facility with several large, dark-colored storage tanks and complex piping. A tall, thin tower or chimney is visible on the right side of the facility. The sky is blue with scattered white clouds.

ATTACHMENT 3: LITHOLOGIC/SAMPLING LOGS

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: BH01		Date: 06/28/2021		
					Site Name: Ross Draw 25 N				
					RP or Incident Number: NAPP2113750980				
					WSP Job Number: 31403236.014.0129				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.01804, -103.93638			Field Screening: Hach chloride strips, PID			Logged By: EL		Method: Hand Auger	
						Hole Diameter: 2 inches		Total Depth: 5 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	1260	12.3	N	BH01	3	3	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor	
D	369.6	9.4	N	BH01A	4	4	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor	
D	<179.2	4.1	N	BH01B	5	5	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche 0.1-4cm, poorly-moderately consolidated, no stain or odor	
TD @ 5 ft bgs									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH01		Date: 06/25/2021	
					Site Name: Ross Draw 25 N			
					RP or Incident Number: NAPP2113750980			
					WSP Job Number: 31403236.014.0129			
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.01804, -103.93638			Field Screening: Hach chloride strips, PID		Hole Diameter: N/A		Method: Backhoe	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	705.6	0	N	PH01	1	1	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	<179.2	0	N	PH01A	2	2	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	<179.2	0	N	PH01B	3	3	SM	SAND, Silty, medium-coarse grain, brown, dry, well graded, Caliche 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	420	0	N	PH01C	4	4	SM	SAND, Silty, medium-coarse grain, brown, dry, well graded, Caliche 0.1-4cm, poorly-moderately consolidated, no stain or odor
TD @ 4 ft bgs								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH02		Date: 06/25/2021		
					Site Name: Ross Draw 25 N				
					RP or Incident Number: NAPP2113750980				
					WSP Job Number: 31403236.014.0129				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.01804, -103.93638			Field Screening: Hach chloride strips, PID			Hole Diameter: N/A		Method: Backhoe	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	369.6	0	N	PH02	1	1	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor	
D	268.8	0	N	PH02A	2	2	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor	
D	<179.2	0	N	PH02B	3	3	SM	SAND, Silty, medium-coarse grain, tan, dry, well graded, Caliche 0.1-4cm, poorly-moderately consolidated, no stain or odor	
D	<179.2	0	N	PH02C	4	4	SM	SAND, Silty, medium-coarse grain, tan, dry, well graded, Caliche 0.1-4cm, poorly-moderately consolidated, no stain or odor	
TD @ 4 ft bgs									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH03		Date: 06/25/2021	
					Site Name: Ross Draw 25 N			
					RP or Incident Number: NAPP2113750980			
					WSP Job Number: 31403236.014.0129			
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.01804, -103.93638			Field Screening: Hach chloride strips, PID		Hole Diameter: N/A		Method: Backhoe	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	526.4	0.1	N	PH03	1	1	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	1,036	0	N	PH03A	2	2	SM	SAND, Silty, fine-medium grain, brown, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	319.2	0	N	PH03B	3	3	SM	SAND, Silty, fine-medium grain, brown, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	1,260	0.1	N	PH03C	4	4	SM	SAND, Silty, fine-medium grain, brown, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor
D	<179.2	0.0	N	PH03D	5	5	SM	SAND, Silty, medium-coarse grain, tan, dry, well graded, Caliche 0.1-4cm, poorly-moderately consolidated, no stain or odor
TD @ 5 ft bgs								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH04		Date: 07/06/2021	
								Site Name: Ross Draw 25 North			
								RP or Incident Number: NAPP2113750980			
								WSP Job Number: 31403236.014.0129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: TC		Method: Backhoe	
Lat/Long: 32.01804, -103.93638					Field Screening:			Hole Diameter: N/A		Total Depth: 5 feet bgs	
					Hach chloride strips, PID						
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	576.8	0.0	N	PH04	1	1	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel, 0.1-4 cm, poorly-moderately consolidated, no stain or odor			
D	<168	0.0	N	PH04A	5	5	SM	SAND, Silty, fine-coarse grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor			
TD @ 5 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH05		Date: 07/06/2021		
					Site Name: Ross Draw 25 North				
					RP or Incident Number: NAPP2113750980				
					WSP Job Number: 31403236.014.0129				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.01804, -103.93638			Field Screening: Hach chloride strips, PID			Hole Diameter: N/A		Method: Backhoe	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	509.6	0.1	N	PH05	1	1	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel, 0.1-4 cm, poorly-moderately consolidated, no stain or odor	
D	<168	0.0	N	PH05A	5	5	SM	SAND, Silty, fine-coarse grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor	
TD @ 5 ft bgs									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH06		Date: 07/06/2021		
					Site Name: Ross Draw 25 North				
					RP or Incident Number: NAPP2113750980				
					WSP Job Number: 31403236.014.0129				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.01804, -103.93638			Field Screening: Hach chloride strips, PID			Hole Diameter: N/A		Method: Backhoe	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	576.8	0.1	N	PH06	1	1	SM	SAND, Silty, fine-medium grain, tan, dry, well graded, Caliche gravel, 0.1-4 cm, poorly-moderately consolidated, no stain or odor	
D	<168	0.0	N	PH06A	5	5	SM	SAND, Silty, fine-coarse grain, tan, dry, well graded, Caliche gravel 0.1-4cm, poorly-moderately consolidated, no stain or odor	
TD @ 5 ft bgs									

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-826-1
SDG Number: 314032636.014.0129
Job Description: Ross Draw 25N

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
6/24/2021 8:22 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
06/24/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAP (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-826-1

Project/Site: Ross Draw 25N

SDG: 314032636.014.0129

Lab Sample ID: 890-826-1	890-826-2	890-826-3	890-826-4
Client Sample ID: SS01	SS02	SS03	SS04
Matrix: Solid	Solid	Solid	Solid
Date Collected: 06/17/2021 11:11	06/17/2021 11:20	06/17/2021 11:27	06/17/2021 11:34

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 06/18/2021 11:07	06/18/2021 11:07	06/18/2021 11:07	06/18/2021 11:07
Analyzed: 06/19/2021 12:47	06/19/2021 13:07	06/19/2021 13:28	06/19/2021 13:48
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00202 U 0.00202	<0.00201 U 0.00201	<0.00199 U 0.00199
Toluene	<0.00202 U 0.00202	<0.00201 U 0.00201	<0.00199 U 0.00199
Ethylbenzene	<0.00202 U 0.00202	<0.00201 U 0.00201	<0.00199 U 0.00199
m-Xylene & p-Xylene	<0.00403 U 0.00403	<0.00402 U 0.00402	<0.00398 U 0.00398
o-Xylene	<0.00202 U 0.00202	<0.00201 U 0.00201	<0.00199 U 0.00199
Xylenes, Total	<0.00403 U 0.00403	<0.00402 U 0.00402	<0.00398 U 0.00398
Total BTEX	<0.00403 U 0.00403	<0.00402 U 0.00402	<0.00398 U 0.00398

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

Prepared: 06/24/2021 10:16	06/24/2021 10:16	06/24/2021 10:16	06/24/2021 10:16
Analyzed: 06/24/2021 13:09	06/24/2021 14:12	06/24/2021 14:33	06/24/2021 14:54
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0
Diesel Range Organics (Over C10-C28)	<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0
Oil Range Organics (Over C28-C36)	<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0
Total TPH	<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:			
Analyzed: 06/22/2021 19:49	06/22/2021 19:55	06/22/2021 20:00	06/22/2021 20:06
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	20500 248	16900 100	32200 250
			2390 25.1



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-826-1

Laboratory Sample Delivery Group: 314032636.014.0129
Client Project/Site: Ross Draw 25N

For:

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

Attn: Dan Moir

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

Authorized for release by:
6/24/2021 8:22:35 PM

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

LINKS

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results through

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Have a Question?



Visit us at:

www.eurofinsus.com/Env

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: Ross Draw 25N

Laboratory Job ID: 890-826-1
SDG: 314032636.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Job ID: 890-826-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-826-1

Comments

No additional comments.

Receipt

The samples were received on 6/17/2021 3:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.2° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-838-A-34-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Client Sample ID: SS01

Lab Sample ID: 890-826-1

Date Collected: 06/17/21 11:11

Matrix: Solid

Date Received: 06/17/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/18/21 11:07	06/19/21 12:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/18/21 11:07	06/19/21 12:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/18/21 11:07	06/19/21 12:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/18/21 11:07	06/19/21 12:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/18/21 11:07	06/19/21 12:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/18/21 11:07	06/19/21 12:47	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		06/18/21 11:07	06/19/21 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	06/18/21 11:07	06/19/21 12:47	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/18/21 11:07	06/19/21 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/24/21 10:16	06/24/21 13:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/24/21 10:16	06/24/21 13:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/24/21 10:16	06/24/21 13:09	1
Total TPH	<49.7	U	49.7		mg/Kg		06/24/21 10:16	06/24/21 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/24/21 10:16	06/24/21 13:09	1
o-Terphenyl	89		70 - 130	06/24/21 10:16	06/24/21 13:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20500		248		mg/Kg			06/22/21 19:49	50

Client Sample ID: SS02

Lab Sample ID: 890-826-2

Date Collected: 06/17/21 11:20

Matrix: Solid

Date Received: 06/17/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/18/21 11:07	06/19/21 13:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/18/21 11:07	06/19/21 13:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/18/21 11:07	06/19/21 13:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/18/21 11:07	06/19/21 13:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/18/21 11:07	06/19/21 13:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/18/21 11:07	06/19/21 13:07	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/18/21 11:07	06/19/21 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	06/18/21 11:07	06/19/21 13:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/18/21 11:07	06/19/21 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/24/21 10:16	06/24/21 14:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Client Sample ID: SS02

Lab Sample ID: 890-826-2

Date Collected: 06/17/21 11:20

Matrix: Solid

Date Received: 06/17/21 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/24/21 10:16	06/24/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/24/21 10:16	06/24/21 14:12	1
Total TPH	<49.9	U	49.9		mg/Kg		06/24/21 10:16	06/24/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				06/24/21 10:16	06/24/21 14:12	1
o-Terphenyl	82		70 - 130				06/24/21 10:16	06/24/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16900		100		mg/Kg			06/22/21 19:55	20

Client Sample ID: SS03

Lab Sample ID: 890-826-3

Date Collected: 06/17/21 11:27

Matrix: Solid

Date Received: 06/17/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/18/21 11:07	06/19/21 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				06/18/21 11:07	06/19/21 13:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/18/21 11:07	06/19/21 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 14:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 14:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 14:33	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				06/24/21 10:16	06/24/21 14:33	1
o-Terphenyl	83		70 - 130				06/24/21 10:16	06/24/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32200		250		mg/Kg			06/22/21 20:00	50

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Client Sample ID: SS04

Lab Sample ID: 890-826-4

Date Collected: 06/17/21 11:34

Matrix: Solid

Date Received: 06/17/21 15:22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 13:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 13:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 13:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/21 11:07	06/19/21 13:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 13:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/21 11:07	06/19/21 13:48	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/18/21 11:07	06/19/21 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	06/18/21 11:07	06/19/21 13:48	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/18/21 11:07	06/19/21 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/24/21 10:16	06/24/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/24/21 10:16	06/24/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/24/21 10:16	06/24/21 14:54	1
Total TPH	<49.8	U	49.8		mg/Kg		06/24/21 10:16	06/24/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/24/21 10:16	06/24/21 14:54	1
o-Terphenyl	90		70 - 130	06/24/21 10:16	06/24/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		25.1		mg/Kg			06/22/21 20:06	5

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-826-1	SS01	138 S1+	94
890-826-2	SS02	121	103
890-826-3	SS03	119	100
890-826-4	SS04	125	98
LCS 880-4294/1-A	Lab Control Sample	108	91
LCSD 880-4294/2-A	Lab Control Sample Dup	105	97
MB 880-4292/5-A	Method Blank	111	94
MB 880-4294/5-A	Method Blank	111	94
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)
890-826-1	SS01	87	89
890-826-1 MS	SS01	83	78
890-826-1 MSD	SS01	84	79
890-826-2	SS02	83	82
890-826-3	SS03	85	83
890-826-4	SS04	91	90
LCS 880-4566/2-A	Lab Control Sample	109	106
LCSD 880-4566/3-A	Lab Control Sample Dup	108	103
MB 880-4566/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4292/5-A

Matrix: Solid

Analysis Batch: 4309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:02	06/18/21 17:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:02	06/18/21 17:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:02	06/18/21 17:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/21 11:02	06/18/21 17:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:02	06/18/21 17:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/21 11:02	06/18/21 17:42	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/18/21 11:02	06/18/21 17:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/18/21 11:02	06/18/21 17:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/18/21 11:02	06/18/21 17:42	1

Lab Sample ID: MB 880-4294/5-A

Matrix: Solid

Analysis Batch: 4309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 05:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 05:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 05:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/18/21 11:07	06/19/21 05:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/18/21 11:07	06/19/21 05:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/18/21 11:07	06/19/21 05:17	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/18/21 11:07	06/19/21 05:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/18/21 11:07	06/19/21 05:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/18/21 11:07	06/19/21 05:17	1

Lab Sample ID: LCS 880-4294/1-A

Matrix: Solid

Analysis Batch: 4309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09729		mg/Kg		97	70 - 130
Toluene	0.100	0.1236		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1256		mg/Kg		126	70 - 130
m-Xylene & p-Xylene	0.200	0.2586		mg/Kg		129	70 - 130
o-Xylene	0.100	0.1293		mg/Kg		129	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

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

Lab Sample ID: LCSD 880-4294/2-A

Matrix: Solid

Analysis Batch: 4309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4294

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1067		mg/Kg		107	70 - 130	9	35
Toluene	0.100	0.1194		mg/Kg		119	70 - 130	4	35
Ethylbenzene	0.100	0.1198		mg/Kg		120	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2473		mg/Kg		124	70 - 130	4	35
o-Xylene	0.100	0.1239		mg/Kg		124	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-4566/1-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 12:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 12:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 12:07	1
Total TPH	<50.0	U	50.0		mg/Kg		06/24/21 10:16	06/24/21 12:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/24/21 10:16	06/24/21 12:07	1
o-Terphenyl	107		70 - 130	06/24/21 10:16	06/24/21 12:07	1

Lab Sample ID: LCS 880-4566/2-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	980.2		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-4566/3-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4566

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	969.6		mg/Kg		97	70 - 130	5	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

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

Lab Sample ID: LCSD 880-4566/3-A

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4566

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	963.7		mg/Kg		96	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-826-1 MS

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 4566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	894.8		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	830.2		mg/Kg		81	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	78		70 - 130								

Lab Sample ID: 890-826-1 MSD

Matrix: Solid

Analysis Batch: 4568

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 4566

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	807.6		mg/Kg		79	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	840.0		mg/Kg		82	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	79		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4295/1-A

Matrix: Solid

Analysis Batch: 4470

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/22/21 18:44	1

Lab Sample ID: LCS 880-4295/2-A

Matrix: Solid

Analysis Batch: 4470

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	240.5		mg/Kg		96	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-4295/3-A							Client Sample ID: Lab Control Sample Dup				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 4470											
			Spike	LCSD	LCSD						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
				Limits							Limit
Chloride			250	240.9		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

GC VOA

Prep Batch: 4292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4292/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 4294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-826-1	SS01	Total/NA	Solid	5035	
890-826-2	SS02	Total/NA	Solid	5035	
890-826-3	SS03	Total/NA	Solid	5035	
890-826-4	SS04	Total/NA	Solid	5035	
MB 880-4294/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4294/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4294/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-826-1	SS01	Total/NA	Solid	8021B	4294
890-826-2	SS02	Total/NA	Solid	8021B	4294
890-826-3	SS03	Total/NA	Solid	8021B	4294
890-826-4	SS04	Total/NA	Solid	8021B	4294
MB 880-4292/5-A	Method Blank	Total/NA	Solid	8021B	4292
MB 880-4294/5-A	Method Blank	Total/NA	Solid	8021B	4294
LCS 880-4294/1-A	Lab Control Sample	Total/NA	Solid	8021B	4294
LCSD 880-4294/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4294

GC Semi VOA

Prep Batch: 4566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-826-1	SS01	Total/NA	Solid	8015NM Prep	
890-826-2	SS02	Total/NA	Solid	8015NM Prep	
890-826-3	SS03	Total/NA	Solid	8015NM Prep	
890-826-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-4566/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4566/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-826-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-826-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-826-1	SS01	Total/NA	Solid	8015B NM	4566
890-826-2	SS02	Total/NA	Solid	8015B NM	4566
890-826-3	SS03	Total/NA	Solid	8015B NM	4566
890-826-4	SS04	Total/NA	Solid	8015B NM	4566
MB 880-4566/1-A	Method Blank	Total/NA	Solid	8015B NM	4566
LCS 880-4566/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4566
LCSD 880-4566/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4566
890-826-1 MS	SS01	Total/NA	Solid	8015B NM	4566
890-826-1 MSD	SS01	Total/NA	Solid	8015B NM	4566

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

HPLC/IC

Leach Batch: 4295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-826-1	SS01	Soluble	Solid	DI Leach	
890-826-2	SS02	Soluble	Solid	DI Leach	
890-826-3	SS03	Soluble	Solid	DI Leach	
890-826-4	SS04	Soluble	Solid	DI Leach	
MB 880-4295/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4295/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4295/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-826-1	SS01	Soluble	Solid	300.0	4295
890-826-2	SS02	Soluble	Solid	300.0	4295
890-826-3	SS03	Soluble	Solid	300.0	4295
890-826-4	SS04	Soluble	Solid	300.0	4295
MB 880-4295/1-A	Method Blank	Soluble	Solid	300.0	4295
LCS 880-4295/2-A	Lab Control Sample	Soluble	Solid	300.0	4295
LCSD 880-4295/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4295

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Client Sample ID: SS01

Lab Sample ID: 890-826-1

Date Collected: 06/17/21 11:11

Matrix: Solid

Date Received: 06/17/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4294	06/18/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	4309	06/19/21 12:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			4566	06/24/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/24/21 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			4295	06/18/21 11:08	CH	XEN MID
Soluble	Analysis	300.0		50	4470	06/22/21 19:49	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-826-2

Date Collected: 06/17/21 11:20

Matrix: Solid

Date Received: 06/17/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4294	06/18/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	4309	06/19/21 13:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			4566	06/24/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/24/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			4295	06/18/21 11:08	CH	XEN MID
Soluble	Analysis	300.0		20	4470	06/22/21 19:55	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-826-3

Date Collected: 06/17/21 11:27

Matrix: Solid

Date Received: 06/17/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4294	06/18/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	4309	06/19/21 13:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			4566	06/24/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/24/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			4295	06/18/21 11:08	CH	XEN MID
Soluble	Analysis	300.0		50	4470	06/22/21 20:00	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-826-4

Date Collected: 06/17/21 11:34

Matrix: Solid

Date Received: 06/17/21 15:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4294	06/18/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	4309	06/19/21 13:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			4566	06/24/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4568	06/24/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			4295	06/18/21 11:08	CH	XEN MID
Soluble	Analysis	300.0		5	4470	06/22/21 20:06	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N

Job ID: 890-826-1
SDG: 314032636.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-826-1	SS01	Solid	06/17/21 11:11	06/17/21 15:22	
890-826-2	SS02	Solid	06/17/21 11:20	06/17/21 15:22	
890-826-3	SS03	Solid	06/17/21 11:27	06/17/21 15:22	
890-826-4	SS04	Solid	06/17/21 11:34	06/17/21 15:22	



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0330 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 291-1111
Hobbs, NM (575-382-7550)

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Chain of Custody

Work Order No:

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Litrell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 e Green Street
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com

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

Project Name:	Ross Draw 25 N	Turn Around	ANALYSIS REQUEST					Work Order Notes
Project Number:	31403236.014.0129	Routine ☒						Cost Center : 1056651001
P.O. Number:		Rush:						Incident # NAPP2113750980
Sampler's Name:	Elliot Lee	Due Date:						

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice	Yes	No
Temperature (°C):	9.4/9.2	Thermometer ID					
Received Intact:	Yes	No	27111-003				
Cooler Custody Seals:	Yes	No	Correction Factor:		-0.2		
Sample Custody Seals:	Yes	No	Total Containers:				

Number of Containers

PA 8015)

EPA 0=8021)

le (EPA 300.0)



890-826 Chain of Custody

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

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020:
8RCRA 13PPM	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U		4634+246.5+17470+7471..11g

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6-17-21 1522z			

Revised Doc 054418 Rev. 2018

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-826-1

SDG Number: 314032636.014.0129

Login Number: 826

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-826-1

SDG Number: 314032636.014.0129

Login Number: 826

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 06/18/21 04:19 PM

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



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-877-1
SDG Number: 31403236.014.0129
Job Description: Ross Draw 25 N

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
7/1/2021 11:31 AM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
07/01/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAP (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-877-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID: 890-877-1	890-877-2	890-877-3	890-877-4	890-877-5
Client Sample ID: PH03A	PH03C	PH03D	PH02	PH02C
Depth: 2	4	5	1	4
Matrix: Solid	Solid	Solid	Solid	Solid
Date Collected: 06/25/2021 12:15	06/25/2021 12:27	06/25/2021 13:01	06/25/2021 13:27	06/25/2021 13:46

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38
Analyzed: 06/30/2021 15:28	06/30/2021 15:49	06/30/2021 16:09	06/30/2021 16:29	06/30/2021 16:50
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198
Toluene	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198
Ethylbenzene	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198
m-Xylene & p-Xylene	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00396 U 0.00396	<0.00397 U 0.00397
o-Xylene	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198
Xylenes, Total	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00396 U 0.00396	<0.00397 U 0.00397
Total BTEX	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00396 U 0.00396	<0.00397 U 0.00397

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

Prepared: 06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44
Analyzed: 06/30/2021 16:05	06/30/2021 16:26	06/30/2021 17:29	06/30/2021 17:50	06/30/2021 18:11
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.8 U *1 49.8	<49.7 U *1 49.7	<50.0 U *1 50.0	<50.0 U *1 50.0
Diesel Range Organics (Over C10-C28)	<49.8 U 49.8	<49.7 U 49.7	<50.0 U 50.0	<50.0 U 50.0
Oil Range Organics (Over C28-C36)	<49.8 U 49.8	<49.7 U 49.7	<50.0 U 50.0	<50.0 U 50.0
Total TPH	<49.8 U 49.8	<49.7 U 49.7	<50.0 U 50.0	<50.0 U 50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:				
Analyzed: 06/30/2021 19:26	06/30/2021 19:42	06/30/2021 19:48	06/30/2021 19:53	06/30/2021 19:59
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	762 F1 4.98	1010 5.05	121 5.02	337 4.99
				11.1 4.99

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-877-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID:	890-877-6	890-877-7	890-877-8
Client Sample ID:	PH01	PH01C	FS01
Depth:	1	4	2
Matrix:	Solid	Solid	Solid
Date Collected:	06/25/2021 14:08	06/25/2021 14:25	06/25/2021 14:45

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38
Analyzed:	06/30/2021 17:10	06/30/2021 17:31	06/30/2021 17:51

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00199 U	0.00199
Toluene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00199 U	0.00199
Ethylbenzene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00199 U	0.00199
m-Xylene & p-Xylene		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00398 U	0.00398
o-Xylene		<0.00201 U	0.00201	<0.00200 U	0.00200	<0.00199 U	0.00199
Xylenes, Total		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00398 U	0.00398
Total BTEX		<0.00402 U	0.00402	<0.00401 U	0.00401	<0.00398 U	0.00398

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

Prepared:	06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44
Analyzed:	06/30/2021 18:32	06/30/2021 19:15	06/30/2021 19:36

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<49.9 U *1	49.9	<50.0 U *1	50.0	<50.0 U *1	50.0
Diesel Range Organics (Over C10-C28)		<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0
Oil Range Organics (Over C28-C36)		<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0
Total TPH		<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:			
Analyzed:	06/30/2021 20:15	06/30/2021 20:21	06/30/2021 20:26

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		567	5.01	188	4.97	2150	25.2



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-877-1

Laboratory Sample Delivery Group: 31403236.014.0129

Client Project/Site: Ross Draw 25 N

For:

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

Attn: Dan Moir

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

Authorized for release by:
7/1/2021 11:31:41 AM

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

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www.eurofinsus.com/Env

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: Ross Draw 25 N

Laboratory Job ID: 890-877-1
SDG: 31403236.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Job ID: 890-877-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-877-1

Receipt

The samples were received on 6/29/2021 8:34 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 4.6°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH03A (890-877-1), PH03C (890-877-2), PH03D (890-877-3), PH02 (890-877-4), PH02C (890-877-5), PH01 (890-877-6), PH01C (890-877-7) and FS01 (890-877-8).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH03A

Lab Sample ID: 890-877-1

Date Collected: 06/25/21 12:15

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 15:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 15:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 15:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 15:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 15:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 15:28	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/30/21 08:38	06/30/21 15:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/30/21 08:38	06/30/21 15:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/30/21 08:44	06/30/21 16:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/30/21 08:44	06/30/21 16:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/30/21 08:44	06/30/21 16:05	1
Total TPH	<49.8	U	49.8	mg/Kg		06/30/21 08:44	06/30/21 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	06/30/21 08:44	06/30/21 16:05	1
o-Terphenyl	113		70 - 130	06/30/21 08:44	06/30/21 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	762	F1	4.98	mg/Kg			06/30/21 19:26	1

Client Sample ID: PH03C

Lab Sample ID: 890-877-2

Date Collected: 06/25/21 12:27

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 15:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 15:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 15:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 15:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 15:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 15:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/30/21 08:38	06/30/21 15:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/30/21 08:38	06/30/21 15:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH03C

Lab Sample ID: 890-877-2

Date Collected: 06/25/21 12:27

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		06/30/21 08:44	06/30/21 16:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/30/21 08:44	06/30/21 16:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/30/21 08:44	06/30/21 16:26	1
Total TPH	<49.7	U	49.7	mg/Kg		06/30/21 08:44	06/30/21 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	06/30/21 08:44	06/30/21 16:26	1
o-Terphenyl	95		70 - 130	06/30/21 08:44	06/30/21 16:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		5.05	mg/Kg			06/30/21 19:42	1

Client Sample ID: PH03D

Lab Sample ID: 890-877-3

Date Collected: 06/25/21 13:01

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/30/21 08:38	06/30/21 16:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/30/21 08:38	06/30/21 16:09	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		06/30/21 08:38	06/30/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	06/30/21 08:38	06/30/21 16:09	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/30/21 08:38	06/30/21 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:29	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	06/30/21 08:44	06/30/21 17:29	1
o-Terphenyl	111		70 - 130	06/30/21 08:44	06/30/21 17:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.02	mg/Kg			06/30/21 19:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH02

Lab Sample ID: 890-877-4

Date Collected: 06/25/21 13:27

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/30/21 08:38	06/30/21 16:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/30/21 08:38	06/30/21 16:29	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/30/21 08:38	06/30/21 16:29	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		06/30/21 08:38	06/30/21 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/30/21 08:38	06/30/21 16:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/30/21 08:38	06/30/21 16:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:50	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	06/30/21 08:44	06/30/21 17:50	1
o-Terphenyl	92		70 - 130	06/30/21 08:44	06/30/21 17:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		4.99	mg/Kg			06/30/21 19:53	1

Client Sample ID: PH02C

Lab Sample ID: 890-877-5

Date Collected: 06/25/21 13:46

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 16:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 16:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 16:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 16:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 16:50	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/30/21 08:38	06/30/21 16:50	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/30/21 08:38	06/30/21 16:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH02C

Lab Sample ID: 890-877-5

Date Collected: 06/25/21 13:46

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:11	1
Total TPH	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	06/30/21 08:44	06/30/21 18:11	1
o-Terphenyl	99		70 - 130	06/30/21 08:44	06/30/21 18:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		4.99	mg/Kg			06/30/21 19:59	1

Client Sample ID: PH01

Lab Sample ID: 890-877-6

Date Collected: 06/25/21 14:08

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 17:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 17:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 17:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 17:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 17:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 17:10	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/30/21 08:38	06/30/21 17:10	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/30/21 08:38	06/30/21 17:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:32	1
Total TPH	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/30/21 08:44	06/30/21 18:32	1
o-Terphenyl	114		70 - 130	06/30/21 08:44	06/30/21 18:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	567		5.01	mg/Kg			06/30/21 20:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH01C

Lab Sample ID: 890-877-7

Date Collected: 06/25/21 14:25

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 17:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 17:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 17:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/30/21 08:38	06/30/21 17:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 17:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/30/21 08:38	06/30/21 17:31	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		06/30/21 08:38	06/30/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/30/21 08:38	06/30/21 17:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/30/21 08:38	06/30/21 17:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:15	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	06/30/21 08:44	06/30/21 19:15	1
o-Terphenyl	114		70 - 130	06/30/21 08:44	06/30/21 19:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		4.97	mg/Kg			06/30/21 20:21	1

Client Sample ID: FS01

Lab Sample ID: 890-877-8

Date Collected: 06/25/21 14:45

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 17:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 17:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 17:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 17:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 17:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 17:51	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/30/21 08:38	06/30/21 17:51	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/30/21 08:38	06/30/21 17:51	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: FS01

Lab Sample ID: 890-877-8

Date Collected: 06/25/21 14:45

Matrix: Solid

Date Received: 06/29/21 08:34

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:36	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	06/30/21 08:44	06/30/21 19:36	1
o-Terphenyl	118		70 - 130	06/30/21 08:44	06/30/21 19:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2150		25.2	mg/Kg			06/30/21 20:26	5

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-877-1	PH03A	106	96
890-877-2	PH03C	97	97
890-877-3	PH03D	113	98
890-877-4	PH02	99	95
890-877-5	PH02C	101	94
890-877-6	PH01	101	94
890-877-7	PH01C	109	93
890-877-8	FS01	107	93
LCS 880-4766/1-A	Lab Control Sample	121	106
LCSD 880-4766/2-A	Lab Control Sample Dup	111	106
MB 880-4766/5-A	Method Blank	96	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-877-1	PH03A	101	113
890-877-2	PH03C	86	95
890-877-3	PH03D	100	111
890-877-4	PH02	81	92
890-877-5	PH02C	88	99
890-877-6	PH01	102	114
890-877-7	PH01C	103	114
890-877-8	FS01	105	118
LCS 880-4768/2-A	Lab Control Sample	109	102
LCSD 880-4768/3-A	Lab Control Sample Dup	87	91
MB 880-4768/1-A	Method Blank	87	101
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4766/5-A

Matrix: Solid

Analysis Batch: 4779

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4766

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 14:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/30/21 08:38	06/30/21 14:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/30/21 08:38	06/30/21 14:26	1

Lab Sample ID: LCS 880-4766/1-A

Matrix: Solid

Analysis Batch: 4779

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09816		mg/Kg		98	70 - 130
Toluene	0.100	0.09758		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1145		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-4766/2-A

Matrix: Solid

Analysis Batch: 4779

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09263		mg/Kg		93	70 - 130	6	35
Toluene	0.100	0.08977		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.09383		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2031		mg/Kg		102	70 - 130	9	35
o-Xylene	0.100	0.1035		mg/Kg		103	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

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

Lab Sample ID: MB 880-4768/1-A

Matrix: Solid

Analysis Batch: 4775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4768

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		06/30/21 08:44	06/30/21 12:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 12:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 12:57	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/30/21 08:44	06/30/21 12:57	1
o-Terphenyl	101		70 - 130	06/30/21 08:44	06/30/21 12:57	1

Lab Sample ID: LCS 880-4768/2-A

Matrix: Solid

Analysis Batch: 4775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	961.6		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1005		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-4768/3-A

Matrix: Solid

Analysis Batch: 4775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	741.6	*1	mg/Kg		74	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	859.3		mg/Kg		86	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4780/1-A

Matrix: Solid

Analysis Batch: 4795

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			06/30/21 19:09	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4780/2-A

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-4780/3-A

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	248.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-877-1 MS

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: PH03A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	762	F1	249	967.6	F1	mg/Kg		83	90 - 110		

Lab Sample ID: 890-877-1 MSD

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: PH03A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	762	F1	249	968.5	F1	mg/Kg		83	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

GC VOA

Prep Batch: 4766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-1	PH03A	Total/NA	Solid	5035	
890-877-2	PH03C	Total/NA	Solid	5035	
890-877-3	PH03D	Total/NA	Solid	5035	
890-877-4	PH02	Total/NA	Solid	5035	
890-877-5	PH02C	Total/NA	Solid	5035	
890-877-6	PH01	Total/NA	Solid	5035	
890-877-7	PH01C	Total/NA	Solid	5035	
890-877-8	FS01	Total/NA	Solid	5035	
MB 880-4766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-1	PH03A	Total/NA	Solid	8021B	4766
890-877-2	PH03C	Total/NA	Solid	8021B	4766
890-877-3	PH03D	Total/NA	Solid	8021B	4766
890-877-4	PH02	Total/NA	Solid	8021B	4766
890-877-5	PH02C	Total/NA	Solid	8021B	4766
890-877-6	PH01	Total/NA	Solid	8021B	4766
890-877-7	PH01C	Total/NA	Solid	8021B	4766
890-877-8	FS01	Total/NA	Solid	8021B	4766
MB 880-4766/5-A	Method Blank	Total/NA	Solid	8021B	4766
LCS 880-4766/1-A	Lab Control Sample	Total/NA	Solid	8021B	4766
LCSD 880-4766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4766

GC Semi VOA

Prep Batch: 4768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-1	PH03A	Total/NA	Solid	8015NM Prep	
890-877-2	PH03C	Total/NA	Solid	8015NM Prep	
890-877-3	PH03D	Total/NA	Solid	8015NM Prep	
890-877-4	PH02	Total/NA	Solid	8015NM Prep	
890-877-5	PH02C	Total/NA	Solid	8015NM Prep	
890-877-6	PH01	Total/NA	Solid	8015NM Prep	
890-877-7	PH01C	Total/NA	Solid	8015NM Prep	
890-877-8	FS01	Total/NA	Solid	8015NM Prep	
MB 880-4768/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4768/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-1	PH03A	Total/NA	Solid	8015B NM	4768
890-877-2	PH03C	Total/NA	Solid	8015B NM	4768
890-877-3	PH03D	Total/NA	Solid	8015B NM	4768
890-877-4	PH02	Total/NA	Solid	8015B NM	4768
890-877-5	PH02C	Total/NA	Solid	8015B NM	4768
890-877-6	PH01	Total/NA	Solid	8015B NM	4768
890-877-7	PH01C	Total/NA	Solid	8015B NM	4768

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

GC Semi VOA (Continued)

Analysis Batch: 4775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-8	FS01	Total/NA	Solid	8015B NM	4768
MB 880-4768/1-A	Method Blank	Total/NA	Solid	8015B NM	4768
LCS 880-4768/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4768
LCSD 880-4768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4768

HPLC/IC

Leach Batch: 4780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-1	PH03A	Soluble	Solid	DI Leach	
890-877-2	PH03C	Soluble	Solid	DI Leach	
890-877-3	PH03D	Soluble	Solid	DI Leach	
890-877-4	PH02	Soluble	Solid	DI Leach	
890-877-5	PH02C	Soluble	Solid	DI Leach	
890-877-6	PH01	Soluble	Solid	DI Leach	
890-877-7	PH01C	Soluble	Solid	DI Leach	
890-877-8	FS01	Soluble	Solid	DI Leach	
MB 880-4780/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4780/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4780/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-877-1 MS	PH03A	Soluble	Solid	DI Leach	
890-877-1 MSD	PH03A	Soluble	Solid	DI Leach	

Analysis Batch: 4795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-877-1	PH03A	Soluble	Solid	300.0	4780
890-877-2	PH03C	Soluble	Solid	300.0	4780
890-877-3	PH03D	Soluble	Solid	300.0	4780
890-877-4	PH02	Soluble	Solid	300.0	4780
890-877-5	PH02C	Soluble	Solid	300.0	4780
890-877-6	PH01	Soluble	Solid	300.0	4780
890-877-7	PH01C	Soluble	Solid	300.0	4780
890-877-8	FS01	Soluble	Solid	300.0	4780
MB 880-4780/1-A	Method Blank	Soluble	Solid	300.0	4780
LCS 880-4780/2-A	Lab Control Sample	Soluble	Solid	300.0	4780
LCSD 880-4780/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4780
890-877-1 MS	PH03A	Soluble	Solid	300.0	4780
890-877-1 MSD	PH03A	Soluble	Solid	300.0	4780

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH03A

Lab Sample ID: 890-877-1

Date Collected: 06/25/21 12:15

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 15:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 19:26	CH	XEN MID

Client Sample ID: PH03C

Lab Sample ID: 890-877-2

Date Collected: 06/25/21 12:27

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 15:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 19:42	CH	XEN MID

Client Sample ID: PH03D

Lab Sample ID: 890-877-3

Date Collected: 06/25/21 13:01

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 16:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 19:48	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-877-4

Date Collected: 06/25/21 13:27

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 16:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 19:53	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Client Sample ID: PH02C

Lab Sample ID: 890-877-5

Date Collected: 06/25/21 13:46

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 16:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 19:59	CH	XEN MID

Client Sample ID: PH01

Lab Sample ID: 890-877-6

Date Collected: 06/25/21 14:08

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 17:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 20:15	CH	XEN MID

Client Sample ID: PH01C

Lab Sample ID: 890-877-7

Date Collected: 06/25/21 14:25

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 17:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 20:21	CH	XEN MID

Client Sample ID: FS01

Lab Sample ID: 890-877-8

Date Collected: 06/25/21 14:45

Matrix: Solid

Date Received: 06/29/21 08:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 17:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 19:36	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5	4795	06/30/21 20:26	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-877-1
SDG: 31403236.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-877-1	PH03A	Solid	06/25/21 12:15	06/29/21 08:34	- 2
890-877-2	PH03C	Solid	06/25/21 12:27	06/29/21 08:34	- 4
890-877-3	PH03D	Solid	06/25/21 13:01	06/29/21 08:34	- 5
890-877-4	PH02	Solid	06/25/21 13:27	06/29/21 08:34	- 1
890-877-5	PH02C	Solid	06/25/21 13:46	06/29/21 08:34	- 4
890-877-6	PH01	Solid	06/25/21 14:08	06/29/21 08:34	- 1
890-877-7	PH01C	Solid	06/25/21 14:25	06/29/21 08:34	- 4
890-877-8	FS01	Solid	06/25/21 14:45	06/29/21 08:34	- 2



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

Chain of Custody

Work Order No: _____

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Litrell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 e Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com

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

Project Name:	Ross Draw 25 N	Turn Around	
Project Number:	31403236.014.0129	Routine ☐	
P.O. Number:		Rush: 46H	
Sampler's Name:	Elliot Lee	Due Date:	

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	48/4.4	Thermometer ID					
Received Intact:	Yes	No					
Cooler Custody Seals:	Yes	N/A			Correction Factor:		
Sample Custody Seals:	Yes	No			Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers			
					TPH (EPA 8015)	BTEX (EPA 8-8021)	Chloride (EPA 300.0)	
PH03A	S	6/25/2021	12:15	2'	1	X	X	X
PH03C	S	6/25/2021	12:27	4'	1	X	X	X
PH03D	S	6/25/2021	13:01	5'	1	X	X	X
PH02	S	6/25/2021	13:27	1'	1	X	X	X
PH02C	S	6/25/2021	13:46	4'	1	X	X	X
PH01	S	6/25/2021	14:08	1'	1	X	X	X
PH01C	S	6/25/2021	14:25	4'	1	X	X	X
FS01	S	6/25/2021	14:45	2'	1	X	X	X

ANALYSIS REQUEST		Work Order Notes	
 890-877 Chain of Custody		Cost Center: 1056651001	
		Incident # NAPP2113750980	

Sample Comments
DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE
DISCRETE
COMPOSITE



890-877 Chain of Custody

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag ILU 1634124511747017471.Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10/27/21 08:34			

Eurofins Xenco. Carlsbad

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-877-1

SDG Number: 31403236.014.0129

Login Number: 877

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-877-1

SDG Number: 31403236.014.0129

Login Number: 877

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 06/30/21 11:17 AM

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



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-878-1
SDG Number: 31403236.014.0129
Job Description: Ross Draw 25 N

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
7/1/2021 11:33 AM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
07/01/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-878-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID: 890-878-1	890-878-2	890-878-3	890-878-4	890-878-5
Client Sample ID: BH01	BH01B	FS02	FS03	FS04
Depth: 1	5	1	1	1
Matrix: Solid	Solid	Solid	Solid	Solid
Date Collected: 06/28/2021 10:45	06/28/2021 11:00	06/28/2021 11:10	06/28/2021 11:15	06/28/2021 11:20

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38	06/30/2021 08:38
Analyzed: 06/30/2021 19:13	06/30/2021 19:33	06/30/2021 19:53	06/30/2021 20:14	06/30/2021 20:34
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00201 U 0.00201	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00201 U 0.00201
Toluene	<0.00201 U 0.00201	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00201 U 0.00201
Ethylbenzene	<0.00201 U 0.00201	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00201 U 0.00201
m-Xylene & p-Xylene	<0.00402 U 0.00402	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00399 U 0.00399
o-Xylene	<0.00201 U 0.00201	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00201 U 0.00201
Xylenes, Total	<0.00402 U 0.00402	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00399 U 0.00399
Total BTEX	<0.00402 U 0.00402	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00399 U 0.00399

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

Prepared: 06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44	06/30/2021 08:44
Analyzed: 06/30/2021 19:57	06/30/2021 20:18	06/30/2021 20:39	06/30/2021 21:01	06/30/2021 21:22
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U *1 49.9	<50.0 U *1 50.0	<50.0 U *1 50.0	<49.8 U *1 49.8
Diesel Range Organics (Over C10-C28)	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.8 U 49.8
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.8 U 49.8
Total TPH	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.8 U 49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:				
Analyzed: 06/30/2021 20:32	06/30/2021 20:37	06/30/2021 20:43	06/30/2021 20:59	06/30/2021 21:05
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	1000 5.03	150 5.04	248 5.00	209 4.98
				173 4.97

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-878-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID:	890-878-6	890-878-7
Client Sample ID:	FS05	SW01
Depth:	2	0 - 1
Matrix:	Solid	Solid
Date Collected:	06/28/2021 11:25	06/28/2021 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	06/30/2021 08:38	06/30/2021 08:38
Analyzed:	06/30/2021 20:55	06/30/2021 21:15

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00201 U	0.00201	<0.00202 U	0.00202
Toluene		<0.00201 U	0.00201	<0.00202 U	0.00202
Ethylbenzene		<0.00201 U	0.00201	<0.00202 U	0.00202
m-Xylene & p-Xylene		<0.00402 U	0.00402	<0.00404 U	0.00404
o-Xylene		<0.00201 U	0.00201	<0.00202 U	0.00202
Xylenes, Total		<0.00402 U	0.00402	<0.00404 U	0.00404
Total BTEX		<0.00402 U	0.00402	<0.00404 U	0.00404

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

Prepared:	06/30/2021 08:44	06/30/2021 08:44
Analyzed:	06/30/2021 21:44	06/30/2021 22:05

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<49.9 U *1	49.9	<49.9 U *1	49.9
Diesel Range Organics (Over C10-C28)		<49.9 U	49.9	<49.9 U	49.9
Oil Range Organics (Over C28-C36)		<49.9 U	49.9	<49.9 U	49.9
Total TPH		<49.9 U	49.9	<49.9 U	49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:		
Analyzed:	06/30/2021 21:21	06/30/2021 21:27

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		72.3	5.05	197	5.00



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-878-1

Laboratory Sample Delivery Group: 31403236.014.0129

Client Project/Site: Ross Draw 25 N

For:

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

Attn: Dan Moir

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

Authorized for release by:
7/1/2021 11:33:22 AM

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

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

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

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Laboratory Job ID: 890-878-1
SDG: 31403236.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Job ID: 890-878-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-878-1

Receipt

The samples were received on 6/29/2021 8:44 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 4.6°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-878-1), BH01B (890-878-2), FS02 (890-878-3), FS03 (890-878-4), FS04 (890-878-5), FS05 (890-878-6) and SW01 (890-878-7).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: BH01

Lab Sample ID: 890-878-1

Date Collected: 06/28/21 10:45

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 19:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 19:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 19:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 19:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 19:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 19:13	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/30/21 08:38	06/30/21 19:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/30/21 08:38	06/30/21 19:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/30/21 08:44	06/30/21 19:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 19:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 19:57	1
Total TPH	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	06/30/21 08:44	06/30/21 19:57	1
o-Terphenyl	106		70 - 130	06/30/21 08:44	06/30/21 19:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		5.03	mg/Kg			06/30/21 20:32	1

Client Sample ID: BH01B

Lab Sample ID: 890-878-2

Date Collected: 06/28/21 11:00

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 19:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 19:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 19:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 19:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/30/21 08:38	06/30/21 19:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 19:33	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/30/21 08:38	06/30/21 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/30/21 08:38	06/30/21 19:33	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/30/21 08:38	06/30/21 19:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: BH01B

Lab Sample ID: 890-878-2

Date Collected: 06/28/21 11:00

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 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 *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:18	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	06/30/21 08:44	06/30/21 20:18	1
o-Terphenyl	114		70 - 130	06/30/21 08:44	06/30/21 20:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		5.04	mg/Kg			06/30/21 20:37	1

Client Sample ID: FS02

Lab Sample ID: 890-878-3

Date Collected: 06/28/21 11:10

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 19:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 19:53	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/30/21 08:38	06/30/21 19:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/30/21 08:38	06/30/21 19:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:39	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	06/30/21 08:44	06/30/21 20:39	1
o-Terphenyl	106		70 - 130	06/30/21 08:44	06/30/21 20:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		5.00	mg/Kg			06/30/21 20:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: FS03

Lab Sample ID: 890-878-4

Date Collected: 06/28/21 11:15

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 20:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 20:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 20:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/30/21 08:38	06/30/21 20:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 20:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/30/21 08:38	06/30/21 20:14	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/30/21 08:38	06/30/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/30/21 08:38	06/30/21 20:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/30/21 08:38	06/30/21 20:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		06/30/21 08:44	06/30/21 21:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/30/21 08:44	06/30/21 21:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/30/21 08:44	06/30/21 21:01	1
Total TPH	<49.8	U	49.8	mg/Kg		06/30/21 08:44	06/30/21 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	06/30/21 08:44	06/30/21 21:01	1
o-Terphenyl	113		70 - 130	06/30/21 08:44	06/30/21 21:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		4.98	mg/Kg			06/30/21 20:59	1

Client Sample ID: FS04

Lab Sample ID: 890-878-5

Date Collected: 06/28/21 11:20

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 20:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 20:34	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/30/21 08:38	06/30/21 20:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/30/21 08:38	06/30/21 20:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: FS04

Lab Sample ID: 890-878-5

Date Collected: 06/28/21 11:20

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/30/21 08:44	06/30/21 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 21:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 21:22	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/30/21 08:44	06/30/21 21:22	1
o-Terphenyl	105		70 - 130	06/30/21 08:44	06/30/21 21:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		4.97	mg/Kg			06/30/21 21:05	1

Client Sample ID: FS05

Lab Sample ID: 890-878-6

Date Collected: 06/28/21 11:25

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 20:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/30/21 08:38	06/30/21 20:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 20:55	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/30/21 08:38	06/30/21 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/30/21 08:38	06/30/21 20:55	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/30/21 08:38	06/30/21 20:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/30/21 08:44	06/30/21 21:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 21:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 21:44	1
Total TPH	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/30/21 08:44	06/30/21 21:44	1
o-Terphenyl	103		70 - 130	06/30/21 08:44	06/30/21 21:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.3		5.05	mg/Kg			06/30/21 21:21	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: SW01

Lab Sample ID: 890-878-7

Date Collected: 06/28/21 13:00

Matrix: Solid

Date Received: 06/29/21 08:44

Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/30/21 08:38	06/30/21 21:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/30/21 08:38	06/30/21 21:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/30/21 08:38	06/30/21 21:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/30/21 08:38	06/30/21 21:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/30/21 08:38	06/30/21 21:15	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/30/21 08:38	06/30/21 21:15	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		06/30/21 08:38	06/30/21 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/30/21 08:38	06/30/21 21:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/30/21 08:38	06/30/21 21:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/30/21 08:44	06/30/21 22:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 22:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 22:05	1
Total TPH	<49.9	U	49.9	mg/Kg		06/30/21 08:44	06/30/21 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	06/30/21 08:44	06/30/21 22:05	1
o-Terphenyl	107		70 - 130	06/30/21 08:44	06/30/21 22:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.00	mg/Kg			06/30/21 21:27	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-878-1	BH01	101	97
890-878-2	BH01B	104	99
890-878-3	FS02	105	97
890-878-4	FS03	108	96
890-878-5	FS04	111	94
890-878-6	FS05	99	95
890-878-7	SW01	111	93
LCS 880-4766/1-A	Lab Control Sample	121	106
LCSD 880-4766/2-A	Lab Control Sample Dup	111	106
MB 880-4766/5-A	Method Blank	96	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-878-1	BH01	93	106
890-878-2	BH01B	101	114
890-878-3	FS02	93	106
890-878-4	FS03	99	113
890-878-5	FS04	94	105
890-878-6	FS05	92	103
890-878-7	SW01	95	107
LCS 880-4768/2-A	Lab Control Sample	109	102
LCSD 880-4768/3-A	Lab Control Sample Dup	87	91
MB 880-4768/1-A	Method Blank	87	101

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4766/5-A

Matrix: Solid

Analysis Batch: 4779

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4766

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 14:26	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/30/21 08:38	06/30/21 14:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/30/21 08:38	06/30/21 14:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/30/21 08:38	06/30/21 14:26	1

Lab Sample ID: LCS 880-4766/1-A

Matrix: Solid

Analysis Batch: 4779

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09816		mg/Kg		98	70 - 130
Toluene	0.100	0.09758		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1145		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-4766/2-A

Matrix: Solid

Analysis Batch: 4779

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09263		mg/Kg		93	70 - 130	6	35
Toluene	0.100	0.08977		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.09383		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2031		mg/Kg		102	70 - 130	9	35
o-Xylene	0.100	0.1035		mg/Kg		103	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

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

Lab Sample ID: MB 880-4768/1-A

Matrix: Solid

Analysis Batch: 4775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4768

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		06/30/21 08:44	06/30/21 12:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 12:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 12:57	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 08:44	06/30/21 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/30/21 08:44	06/30/21 12:57	1
o-Terphenyl	101		70 - 130	06/30/21 08:44	06/30/21 12:57	1

Lab Sample ID: LCS 880-4768/2-A

Matrix: Solid

Analysis Batch: 4775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	961.6		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1005		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-4768/3-A

Matrix: Solid

Analysis Batch: 4775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	741.6	*1	mg/Kg		74	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	859.3		mg/Kg		86	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4780/1-A

Matrix: Solid

Analysis Batch: 4795

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			06/30/21 19:09	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4780/2-A

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-4780/3-A

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	248.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-878-3 MS

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	248		250	478.9		mg/Kg		93	90 - 110		

Lab Sample ID: 890-878-3 MSD

Matrix: Solid

Analysis Batch: 4795

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	248		250	478.1		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

GC VOA

Prep Batch: 4766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-878-1	BH01	Total/NA	Solid	5035	
890-878-2	BH01B	Total/NA	Solid	5035	
890-878-3	FS02	Total/NA	Solid	5035	
890-878-4	FS03	Total/NA	Solid	5035	
890-878-5	FS04	Total/NA	Solid	5035	
890-878-6	FS05	Total/NA	Solid	5035	
890-878-7	SW01	Total/NA	Solid	5035	
MB 880-4766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-878-1	BH01	Total/NA	Solid	8021B	4766
890-878-2	BH01B	Total/NA	Solid	8021B	4766
890-878-3	FS02	Total/NA	Solid	8021B	4766
890-878-4	FS03	Total/NA	Solid	8021B	4766
890-878-5	FS04	Total/NA	Solid	8021B	4766
890-878-6	FS05	Total/NA	Solid	8021B	4766
890-878-7	SW01	Total/NA	Solid	8021B	4766
MB 880-4766/5-A	Method Blank	Total/NA	Solid	8021B	4766
LCS 880-4766/1-A	Lab Control Sample	Total/NA	Solid	8021B	4766
LCSD 880-4766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4766

GC Semi VOA

Prep Batch: 4768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-878-1	BH01	Total/NA	Solid	8015NM Prep	
890-878-2	BH01B	Total/NA	Solid	8015NM Prep	
890-878-3	FS02	Total/NA	Solid	8015NM Prep	
890-878-4	FS03	Total/NA	Solid	8015NM Prep	
890-878-5	FS04	Total/NA	Solid	8015NM Prep	
890-878-6	FS05	Total/NA	Solid	8015NM Prep	
890-878-7	SW01	Total/NA	Solid	8015NM Prep	
MB 880-4768/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4768/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-878-1	BH01	Total/NA	Solid	8015B NM	4768
890-878-2	BH01B	Total/NA	Solid	8015B NM	4768
890-878-3	FS02	Total/NA	Solid	8015B NM	4768
890-878-4	FS03	Total/NA	Solid	8015B NM	4768
890-878-5	FS04	Total/NA	Solid	8015B NM	4768
890-878-6	FS05	Total/NA	Solid	8015B NM	4768
890-878-7	SW01	Total/NA	Solid	8015B NM	4768
MB 880-4768/1-A	Method Blank	Total/NA	Solid	8015B NM	4768
LCS 880-4768/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4768
LCSD 880-4768/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4768

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

HPLC/IC

Leach Batch: 4780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-878-1	BH01	Soluble	Solid	DI Leach	
890-878-2	BH01B	Soluble	Solid	DI Leach	
890-878-3	FS02	Soluble	Solid	DI Leach	
890-878-4	FS03	Soluble	Solid	DI Leach	
890-878-5	FS04	Soluble	Solid	DI Leach	
890-878-6	FS05	Soluble	Solid	DI Leach	
890-878-7	SW01	Soluble	Solid	DI Leach	
MB 880-4780/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4780/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4780/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-878-3 MS	FS02	Soluble	Solid	DI Leach	
890-878-3 MSD	FS02	Soluble	Solid	DI Leach	

Analysis Batch: 4795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-878-1	BH01	Soluble	Solid	300.0	4780
890-878-2	BH01B	Soluble	Solid	300.0	4780
890-878-3	FS02	Soluble	Solid	300.0	4780
890-878-4	FS03	Soluble	Solid	300.0	4780
890-878-5	FS04	Soluble	Solid	300.0	4780
890-878-6	FS05	Soluble	Solid	300.0	4780
890-878-7	SW01	Soluble	Solid	300.0	4780
MB 880-4780/1-A	Method Blank	Soluble	Solid	300.0	4780
LCS 880-4780/2-A	Lab Control Sample	Soluble	Solid	300.0	4780
LCSD 880-4780/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4780
890-878-3 MS	FS02	Soluble	Solid	300.0	4780
890-878-3 MSD	FS02	Soluble	Solid	300.0	4780

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: BH01

Lab Sample ID: 890-878-1

Date Collected: 06/28/21 10:45

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 19:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 19:57	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 20:32	CH	XEN MID

Client Sample ID: BH01B

Lab Sample ID: 890-878-2

Date Collected: 06/28/21 11:00

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 19:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 20:18	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 20:37	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-878-3

Date Collected: 06/28/21 11:10

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 19:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 20:39	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 20:43	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-878-4

Date Collected: 06/28/21 11:15

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 20:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 21:01	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 20:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Client Sample ID: FS04

Lab Sample ID: 890-878-5

Date Collected: 06/28/21 11:20

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 20:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 21:22	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 21:05	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-878-6

Date Collected: 06/28/21 11:25

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 20:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 21:44	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 21:21	CH	XEN MID

Client Sample ID: SW01

Lab Sample ID: 890-878-7

Date Collected: 06/28/21 13:00

Matrix: Solid

Date Received: 06/29/21 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4766	06/30/21 08:38	KL	XEN MID
Total/NA	Analysis	8021B		1	4779	06/30/21 21:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			4768	06/30/21 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4775	06/30/21 22:05	AJ	XEN MID
Soluble	Leach	DI Leach			4780	06/30/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		1	4795	06/30/21 21:27	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-878-1
SDG: 31403236.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-878-1	BH01	Solid	06/28/21 10:45	06/29/21 08:44	- 1
890-878-2	BH01B	Solid	06/28/21 11:00	06/29/21 08:44	- 5
890-878-3	FS02	Solid	06/28/21 11:10	06/29/21 08:44	- 1
890-878-4	FS03	Solid	06/28/21 11:15	06/29/21 08:44	- 1
890-878-5	FS04	Solid	06/28/21 11:20	06/29/21 08:44	- 1
890-878-6	FS05	Solid	06/28/21 11:25	06/29/21 08:44	- 2
890-878-7	SW01	Solid	06/28/21 13:00	06/29/21 08:44	0 - 1



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

Chain of Custody

Work Order No: _____

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 e Green Street
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting Level: I ☐ Level II ☐ Level III ☐ Level IV ☐	Deliverables: EDD ☐ ADaPT ☐ Other: ☐

Project Name:	Ross Draw 25 N	Turn Around	
Project Number:	31403236.014.0129	Routine ☐	
P.O. Number:		Rush: 48 H	
Sample's Name:	Elliot Lee	Due Date:	

SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
	Temperature (°C):	4.8/4.6	Thermometer ID	7NM-007
	Received Intact:	☒ Yes ☐ No	Correction Factor:	
	Cooler Custody Seals:	☒ Yes ☐ No	Total Containers:	
	Sample Custody Seals:	☒ Yes ☐ No		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
BH01	S	6/28/2021	10:45	1'	1	X	X	X		Cost Center : 1056651001
BH01B	S	6/28/2021	11:00	5'	1	X	X	X		Incident # NAPP2113750980
FS02	S	6/28/2021	11:10	1'	1	X	X	X		
FS03	S	6/28/2021	11:15	1'	1	X	X	X		
FS04	S	6/28/2021	11:20	1'	1	X	X	X		
FS05	S	6/28/2021	11:25	2'	1	X	X	X		
SW01	S	6/28/2021	13:00	0-1'	1	X	X	X		



890-878 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1684124541747017471.Hg

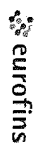
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6/28/21 0834			

Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-878-1

SDG Number: 31403236.014.0129

Login Number: 878

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-878-1

SDG Number: 31403236.014.0129

Login Number: 878

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 06/30/21 11:17 AM

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



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-881-1
SDG Number: 31403236.014.0129
Job Description: Ross Draw 25 N

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in black ink that reads "JKRAMER".

Approved for release.
Jessica Kramer
Project Manager
7/2/2021 4:11 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
07/02/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-881-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID: 890-881-1	890-881-2	890-881-3	890-881-4	890-881-5
Client Sample ID: FS07	SW04	FS06	SW02	SW03
Depth: 2	0 - 2	2	0 - 2	0 - 2
Matrix: Solid	Solid	Solid	Solid	Solid
Date Collected: 06/30/2021 10:43	06/30/2021 10:50	06/30/2021 11:57	06/30/2021 12:05	06/30/2021 12:13

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 07/01/2021 10:07	07/01/2021 10:07	07/01/2021 10:07	07/01/2021 10:07	07/01/2021 10:07
Analyzed: 07/02/2021 10:33	07/02/2021 10:54	07/02/2021 11:14	07/02/2021 11:35	07/02/2021 11:55
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00202 U 0.00202	<0.00200 U 0.00200
Toluene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00202 U 0.00202	<0.00200 U 0.00200
Ethylbenzene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00202 U 0.00202	<0.00200 U 0.00200
m-Xylene & p-Xylene	<0.00399 U 0.00399	<0.00398 U 0.00398	<0.00403 U 0.00403	<0.00399 U 0.00399
o-Xylene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00202 U 0.00202	<0.00200 U 0.00200
Xylenes, Total	<0.00399 U 0.00399	<0.00398 U 0.00398	<0.00403 U 0.00403	<0.00399 U 0.00399
Total BTEX	<0.00399 U 0.00399	<0.00398 U 0.00398	<0.00403 U 0.00403	<0.00399 U 0.00399

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

Prepared: 07/01/2021 15:30	07/01/2021 15:30	07/01/2021 15:30	07/01/2021 15:30	07/01/2021 15:30
Analyzed: 07/01/2021 16:39	07/01/2021 17:21	07/01/2021 17:42	07/01/2021 18:03	07/01/2021 18:24
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9
Diesel Range Organics (Over C10-C28)	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9
Total TPH	<49.9 U 49.9	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:				
Analyzed: 07/02/2021 13:16	07/02/2021 13:33	07/02/2021 13:39	07/02/2021 13:44	07/02/2021 13:49
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	432 F1 4.98	696 5.02	36.1 4.97	212 4.95
				4160 25.3

Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-881-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID: 890-881-6	890-881-7	890-881-8	890-881-9
Client Sample ID: FS08	FS09	FS10	SW05
Depth: 2	2	2	0 - 2
Matrix: Solid	Solid	Solid	Solid
Date Collected: 06/30/2021 12:20	06/30/2021 13:23	06/30/2021 14:20	06/30/2021 15:00

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 07/01/2021 10:07	07/01/2021 10:07	07/01/2021 10:07	07/01/2021 10:07
Analyzed: 07/02/2021 12:15	07/02/2021 12:36	07/02/2021 12:56	07/02/2021 13:17
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<0.00200 U 0.00200	<0.00202 U 0.00202
Toluene	<0.00200 U 0.00200	<0.00200 U 0.00200	<0.00202 U 0.00202
Ethylbenzene	<0.00200 U 0.00200	<0.00200 U 0.00200	<0.00202 U 0.00202
m-Xylene & p-Xylene	<0.00399 U 0.00399	<0.00401 U 0.00401	<0.00403 U 0.00403
o-Xylene	<0.00200 U 0.00200	<0.00200 U 0.00200	<0.00202 U 0.00202
Xylenes, Total	<0.00399 U 0.00399	<0.00401 U 0.00401	<0.00403 U 0.00403
Total BTEX	<0.00399 U 0.00399	<0.00401 U 0.00401	<0.00403 U 0.00403

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

Prepared: 07/01/2021 15:30	07/01/2021 15:30	07/01/2021 15:30	07/01/2021 15:30
Analyzed: 07/01/2021 18:46	07/01/2021 19:07	07/01/2021 19:28	07/01/2021 19:49
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<50.0 U 50.0	<49.8 U 49.8	<50.0 U 50.0
Diesel Range Organics (Over C10-C28)	<50.0 U 50.0	<49.8 U 49.8	<50.0 U 50.0
Oil Range Organics (Over C28-C36)	<50.0 U 50.0	<49.8 U 49.8	<50.0 U 50.0
Total TPH	<50.0 U 50.0	<49.8 U 49.8	<50.0 U 50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:			
Analyzed: 07/02/2021 14:06	07/02/2021 14:12	07/02/2021 14:17	07/02/2021 14:23
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	146 4.96	51.9 4.95	107 5.00
			552 5.00



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-881-1

Laboratory Sample Delivery Group: 31403236.014.0129

Client Project/Site: Ross Draw 25 N

For:

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

Attn: Dan Moir

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

Authorized for release by:
7/2/2021 4:11:24 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Laboratory Job ID: 890-881-1
SDG: 31403236.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Job ID: 890-881-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-881-1****Receipt**

The samples were received on 7/1/2021 8:18 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW02 (890-881-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW05 (890-881-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-4857, 880-4857 and 880-4857 and analytical batch 880-4863 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. The associated samples are: FS07 (890-881-1), SW04 (890-881-2), FS06 (890-881-3), SW02 (890-881-4), SW03 (890-881-5), FS08 (890-881-6), FS09 (890-881-7), FS10 (890-881-8), SW05 (890-881-9) and (890-881-A-1-I MS).

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: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: FS07

Lab Sample ID: 890-881-1

Date Collected: 06/30/21 10:43

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 10:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 10:33	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/01/21 10:07	07/02/21 10:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/01/21 10:07	07/02/21 10:33	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		07/01/21 15:30	07/01/21 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 16:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 16:39	1
Total TPH	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/01/21 15:30	07/01/21 16:39	1
o-Terphenyl	98		70 - 130	07/01/21 15:30	07/01/21 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	432	F1	4.98	mg/Kg			07/02/21 13:16	1

Client Sample ID: SW04

Lab Sample ID: 890-881-2

Date Collected: 06/30/21 10:50

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 10:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 10:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 10:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/01/21 10:07	07/02/21 10:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 10:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/01/21 10:07	07/02/21 10:54	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/01/21 10:07	07/02/21 10:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/01/21 10:07	07/02/21 10:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/01/21 10:07	07/02/21 10:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: SW04

Lab Sample ID: 890-881-2

Date Collected: 06/30/21 10:50

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:21	1
Total TPH	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/01/21 15:30	07/01/21 17:21	1
o-Terphenyl	94		70 - 130	07/01/21 15:30	07/01/21 17:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		5.02	mg/Kg			07/02/21 13:33	1

Client Sample ID: FS06

Lab Sample ID: 890-881-3

Date Collected: 06/30/21 11:57

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 11:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 11:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 11:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/01/21 10:07	07/02/21 11:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 11:14	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/01/21 10:07	07/02/21 11:14	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/01/21 10:07	07/02/21 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/01/21 10:07	07/02/21 11:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/01/21 10:07	07/02/21 11:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:42	1
Total TPH	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	07/01/21 15:30	07/01/21 17:42	1
o-Terphenyl	99		70 - 130	07/01/21 15:30	07/01/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.1		4.97	mg/Kg			07/02/21 13:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: SW02

Lab Sample ID: 890-881-4

Date Collected: 06/30/21 12:05

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 11:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 11:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 11:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 11:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 11:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 11:35	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/01/21 10:07	07/02/21 11:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/01/21 10:07	07/02/21 11:35	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		07/01/21 15:30	07/01/21 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 18:03	1
Total TPH	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/01/21 15:30	07/01/21 18:03	1
o-Terphenyl	94		70 - 130	07/01/21 15:30	07/01/21 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		4.95	mg/Kg			07/02/21 13:44	1

Client Sample ID: SW03

Lab Sample ID: 890-881-5

Date Collected: 06/30/21 12:13

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 11:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 11:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 11:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/01/21 10:07	07/02/21 11:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/01/21 10:07	07/02/21 11:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/01/21 10:07	07/02/21 11:55	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/01/21 10:07	07/02/21 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/01/21 10:07	07/02/21 11:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/01/21 10:07	07/02/21 11:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: SW03

Lab Sample ID: 890-881-5

Date Collected: 06/30/21 12:13

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:24	1
Total TPH	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	07/01/21 15:30	07/01/21 18:24	1
o-Terphenyl	108		70 - 130	07/01/21 15:30	07/01/21 18:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4160		25.3	mg/Kg			07/02/21 13:49	5

Client Sample ID: FS08

Lab Sample ID: 890-881-6

Date Collected: 06/30/21 12:20

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 12:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 12:15	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/01/21 10:07	07/02/21 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/01/21 10:07	07/02/21 12:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/01/21 10:07	07/02/21 12:15	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		07/01/21 15:30	07/01/21 18:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:46	1
Total TPH	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/01/21 15:30	07/01/21 18:46	1
o-Terphenyl	119		70 - 130	07/01/21 15:30	07/01/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		4.96	mg/Kg			07/02/21 14:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: FS09

Lab Sample ID: 890-881-7

Date Collected: 06/30/21 13:23

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/01/21 10:07	07/02/21 12:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 12:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/01/21 10:07	07/02/21 12:36	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/01/21 10:07	07/02/21 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	07/01/21 10:07	07/02/21 12:36	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/01/21 10:07	07/02/21 12:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/01/21 15:30	07/01/21 19:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/01/21 15:30	07/01/21 19:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/01/21 15:30	07/01/21 19:07	1
Total TPH	<49.8	U	49.8	mg/Kg		07/01/21 15:30	07/01/21 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/01/21 15:30	07/01/21 19:07	1
o-Terphenyl	109		70 - 130	07/01/21 15:30	07/01/21 19:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.9		4.95	mg/Kg			07/02/21 14:12	1

Client Sample ID: FS10

Lab Sample ID: 890-881-8

Date Collected: 06/30/21 14:20

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 12:56	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 12:56	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 12:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/01/21 10:07	07/02/21 12:56	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 12:56	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/01/21 10:07	07/02/21 12:56	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		07/01/21 10:07	07/02/21 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/01/21 10:07	07/02/21 12:56	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/01/21 10:07	07/02/21 12:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: FS10

Lab Sample ID: 890-881-8

Date Collected: 06/30/21 14:20

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 19:28	1
Total TPH	<50.0	U	50.0	mg/Kg		07/01/21 15:30	07/01/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/01/21 15:30	07/01/21 19:28	1
o-Terphenyl	96		70 - 130	07/01/21 15:30	07/01/21 19:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		5.00	mg/Kg			07/02/21 14:17	1

Client Sample ID: SW05

Lab Sample ID: 890-881-9

Date Collected: 06/30/21 15:00

Matrix: Solid

Date Received: 07/01/21 08:18

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 13:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 13:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 13:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/01/21 10:07	07/02/21 13:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/01/21 10:07	07/02/21 13:17	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/01/21 10:07	07/02/21 13:17	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		07/01/21 10:07	07/02/21 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/01/21 10:07	07/02/21 13:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/01/21 10:07	07/02/21 13:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 19:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 19:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 19:49	1
Total TPH	<49.9	U	49.9	mg/Kg		07/01/21 15:30	07/01/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/01/21 15:30	07/01/21 19:49	1
o-Terphenyl	102		70 - 130	07/01/21 15:30	07/01/21 19:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	552		5.00	mg/Kg			07/02/21 14:23	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-881-1	FS07	109	103
890-881-2	SW04	103	103
890-881-3	FS06	124	108
890-881-4	SW02	98	87
890-881-5	SW03	107	99
890-881-6	FS08	114	99
890-881-7	FS09	105	97
890-881-8	FS10	107	95
890-881-9	SW05	100	98
LCS 880-4813/1-A	Lab Control Sample	115	109
LCSD 880-4813/2-A	Lab Control Sample Dup	120	108
MB 880-4813/5-A	Method Blank	91	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-881-1 MS	FS07		
890-881-1 MSD	FS07		
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)
890-881-1	FS07	82	98
890-881-2	SW04	81	94
890-881-3	FS06	84	99
890-881-4	SW02	80	94
890-881-5	SW03	91	108
890-881-6	FS08	98	119
890-881-7	FS09	90	109
890-881-8	FS10	82	96
890-881-9	SW05	87	102
LCS 880-4791/2-A	Lab Control Sample	83	93
LCSD 880-4791/3-A	Lab Control Sample Dup	88	95
MB 880-4791/1-A	Method Blank	88	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4813/5-A

Matrix: Solid

Analysis Batch: 4815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4813

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/01/21 10:07	07/02/21 10:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/01/21 10:07	07/02/21 10:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/01/21 10:07	07/02/21 10:12	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/01/21 10:07	07/02/21 10:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	07/01/21 10:07	07/02/21 10:12	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/01/21 10:07	07/02/21 10:12	1

Lab Sample ID: LCS 880-4813/1-A

Matrix: Solid

Analysis Batch: 4815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2277		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1191		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-4813/2-A

Matrix: Solid

Analysis Batch: 4815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4813

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09852		mg/Kg		99	70 - 130	4	35
Toluene	0.100	0.09741		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2256		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-881-1 MS

Matrix: Solid

Analysis Batch: 4815

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 4813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.09127		mg/Kg			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

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

Lab Sample ID: 890-881-1 MS

Matrix: Solid

Analysis Batch: 4815

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 4813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U	0.0998	0.08152		mg/Kg			
Ethylbenzene	<0.00200	U	0.0998	0.07569		mg/Kg			
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1648		mg/Kg			
o-Xylene	<0.00200	U	0.0998	0.08732		mg/Kg			

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-881-1 MSD

Matrix: Solid

Analysis Batch: 4815

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 4813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.07721		mg/Kg					
Toluene	<0.00200	U	0.101	0.08209		mg/Kg					
Ethylbenzene	<0.00200	U	0.101	0.09081		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U	0.202	0.2005		mg/Kg					
o-Xylene	<0.00200	U	0.101	0.1047		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

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

Lab Sample ID: MB 880-4791/1-A

Matrix: Solid

Analysis Batch: 4809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4791

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		06/30/21 15:30	07/01/21 11:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/30/21 15:30	07/01/21 11:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/30/21 15:30	07/01/21 11:48	1
Total TPH	<50.0	U	50.0	mg/Kg		06/30/21 15:30	07/01/21 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	06/30/21 15:30	07/01/21 11:48	1
o-Terphenyl	106		70 - 130	06/30/21 15:30	07/01/21 11:48	1

Lab Sample ID: LCS 880-4791/2-A

Matrix: Solid

Analysis Batch: 4809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	811.8		mg/Kg		81	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

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

Lab Sample ID: LCS 880-4791/2-A

Matrix: Solid

Analysis Batch: 4809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4791

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over C10-C28)			1000	917.0		mg/Kg		92	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: LCSD 880-4791/3-A

Matrix: Solid

Analysis Batch: 4809

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4791

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	942.8		mg/Kg		94	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	943.7		mg/Kg		94	70 - 130	3	20
				LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4857/1-A

Matrix: Solid

Analysis Batch: 4863

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			07/02/21 13:00	1

Lab Sample ID: LCS 880-4857/2-A

Matrix: Solid

Analysis Batch: 4863

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.6		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-4857/3-A

Matrix: Solid

Analysis Batch: 4863

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	244.2		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-881-1 MS

Matrix: Solid

Analysis Batch: 4863

Client Sample ID: FS07

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	432	F1	249	651.8	F1	mg/Kg		88	90 - 110

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-881-1 MSD							Client Sample ID: FS07					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 4863												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	432	F1	249	651.7	F1	mg/Kg		88	90 - 110	0	20	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

GC VOA

Prep Batch: 4813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-881-1	FS07	Total/NA	Solid	5035	
890-881-2	SW04	Total/NA	Solid	5035	
890-881-3	FS06	Total/NA	Solid	5035	
890-881-4	SW02	Total/NA	Solid	5035	
890-881-5	SW03	Total/NA	Solid	5035	
890-881-6	FS08	Total/NA	Solid	5035	
890-881-7	FS09	Total/NA	Solid	5035	
890-881-8	FS10	Total/NA	Solid	5035	
890-881-9	SW05	Total/NA	Solid	5035	
MB 880-4813/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4813/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4813/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-881-1 MS	FS07	Total/NA	Solid	5035	
890-881-1 MSD	FS07	Total/NA	Solid	5035	

Analysis Batch: 4815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-881-1	FS07	Total/NA	Solid	8021B	4813
890-881-2	SW04	Total/NA	Solid	8021B	4813
890-881-3	FS06	Total/NA	Solid	8021B	4813
890-881-4	SW02	Total/NA	Solid	8021B	4813
890-881-5	SW03	Total/NA	Solid	8021B	4813
890-881-6	FS08	Total/NA	Solid	8021B	4813
890-881-7	FS09	Total/NA	Solid	8021B	4813
890-881-8	FS10	Total/NA	Solid	8021B	4813
890-881-9	SW05	Total/NA	Solid	8021B	4813
MB 880-4813/5-A	Method Blank	Total/NA	Solid	8021B	4813
LCS 880-4813/1-A	Lab Control Sample	Total/NA	Solid	8021B	4813
LCSD 880-4813/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4813
890-881-1 MS	FS07	Total/NA	Solid	8021B	4813
890-881-1 MSD	FS07	Total/NA	Solid	8021B	4813

GC Semi VOA

Prep Batch: 4791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-881-1	FS07	Total/NA	Solid	8015NM Prep	
890-881-2	SW04	Total/NA	Solid	8015NM Prep	
890-881-3	FS06	Total/NA	Solid	8015NM Prep	
890-881-4	SW02	Total/NA	Solid	8015NM Prep	
890-881-5	SW03	Total/NA	Solid	8015NM Prep	
890-881-6	FS08	Total/NA	Solid	8015NM Prep	
890-881-7	FS09	Total/NA	Solid	8015NM Prep	
890-881-8	FS10	Total/NA	Solid	8015NM Prep	
890-881-9	SW05	Total/NA	Solid	8015NM Prep	
MB 880-4791/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4791/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4791/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

GC Semi VOA

Analysis Batch: 4809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-881-1	FS07	Total/NA	Solid	8015B NM	4791
890-881-2	SW04	Total/NA	Solid	8015B NM	4791
890-881-3	FS06	Total/NA	Solid	8015B NM	4791
890-881-4	SW02	Total/NA	Solid	8015B NM	4791
890-881-5	SW03	Total/NA	Solid	8015B NM	4791
890-881-6	FS08	Total/NA	Solid	8015B NM	4791
890-881-7	FS09	Total/NA	Solid	8015B NM	4791
890-881-8	FS10	Total/NA	Solid	8015B NM	4791
890-881-9	SW05	Total/NA	Solid	8015B NM	4791
MB 880-4791/1-A	Method Blank	Total/NA	Solid	8015B NM	4791
LCS 880-4791/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4791
LCSD 880-4791/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4791

HPLC/IC

Leach Batch: 4857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-881-1	FS07	Soluble	Solid	DI Leach	
890-881-2	SW04	Soluble	Solid	DI Leach	
890-881-3	FS06	Soluble	Solid	DI Leach	
890-881-4	SW02	Soluble	Solid	DI Leach	
890-881-5	SW03	Soluble	Solid	DI Leach	
890-881-6	FS08	Soluble	Solid	DI Leach	
890-881-7	FS09	Soluble	Solid	DI Leach	
890-881-8	FS10	Soluble	Solid	DI Leach	
890-881-9	SW05	Soluble	Solid	DI Leach	
MB 880-4857/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4857/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4857/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-881-1 MS	FS07	Soluble	Solid	DI Leach	
890-881-1 MSD	FS07	Soluble	Solid	DI Leach	

Analysis Batch: 4863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-881-1	FS07	Soluble	Solid	300.0	4857
890-881-2	SW04	Soluble	Solid	300.0	4857
890-881-3	FS06	Soluble	Solid	300.0	4857
890-881-4	SW02	Soluble	Solid	300.0	4857
890-881-5	SW03	Soluble	Solid	300.0	4857
890-881-6	FS08	Soluble	Solid	300.0	4857
890-881-7	FS09	Soluble	Solid	300.0	4857
890-881-8	FS10	Soluble	Solid	300.0	4857
890-881-9	SW05	Soluble	Solid	300.0	4857
MB 880-4857/1-A	Method Blank	Soluble	Solid	300.0	4857
LCS 880-4857/2-A	Lab Control Sample	Soluble	Solid	300.0	4857
LCSD 880-4857/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4857
890-881-1 MS	FS07	Soluble	Solid	300.0	4857
890-881-1 MSD	FS07	Soluble	Solid	300.0	4857

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: FS07

Lab Sample ID: 890-881-1

Date Collected: 06/30/21 10:43

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 10:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 10:00	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 13:16	SC	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-881-2

Date Collected: 06/30/21 10:50

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 10:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 10:00	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 13:33	SC	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-881-3

Date Collected: 06/30/21 11:57

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 11:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 10:00	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 13:39	SC	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-881-4

Date Collected: 06/30/21 12:05

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 11:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 10:00	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 13:44	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: SW03

Lab Sample ID: 890-881-5

Date Collected: 06/30/21 12:13

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 11:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 10:00	CH	XEN MID
Soluble	Analysis	300.0		5	4863	07/02/21 13:49	SC	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-881-6

Date Collected: 06/30/21 12:20

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 12:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 18:46	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 10:00	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 14:06	SC	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-881-7

Date Collected: 06/30/21 13:23

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 12:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 19:07	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 14:12	SC	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-881-8

Date Collected: 06/30/21 14:20

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 12:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 19:28	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 14:17	SC	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Client Sample ID: SW05

Lab Sample ID: 890-881-9

Date Collected: 06/30/21 15:00

Matrix: Solid

Date Received: 07/01/21 08:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4813	07/01/21 10:07	MR	XEN MID
Total/NA	Analysis	8021B		1	4815	07/02/21 13:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			4791	07/01/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4809	07/01/21 19:49	AJ	XEN MID
Soluble	Leach	DI Leach			4857	07/02/21 11:56	CH	XEN MID
Soluble	Analysis	300.0		1	4863	07/02/21 14:23	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-881-1
SDG: 31403236.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-881-1	FS07	Solid	06/30/21 10:43	07/01/21 08:18	- 2
890-881-2	SW04	Solid	06/30/21 10:50	07/01/21 08:18	0 - 2
890-881-3	FS06	Solid	06/30/21 11:57	07/01/21 08:18	- 2
890-881-4	SW02	Solid	06/30/21 12:05	07/01/21 08:18	0 - 2
890-881-5	SW03	Solid	06/30/21 12:13	07/01/21 08:18	0 - 2
890-881-6	FS08	Solid	06/30/21 12:20	07/01/21 08:18	- 2
890-881-7	FS09	Solid	06/30/21 13:23	07/01/21 08:18	- 2
890-881-8	FS10	Solid	06/30/21 14:20	07/01/21 08:18	- 2
890-881-9	SW05	Solid	06/30/21 15:00	07/01/21 08:18	0 - 2



Chain of Custody

Work Order No: _____

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

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 e Green Street
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com

Program: ☐ UST/PST ☐ RFP ☐ Brownfields ☐ RC ☐ Superfund	
State of Project:	
Reporting Level: ☐ I ☐ II ☐ III ☐ BT/UST ☐ RFP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

ANALYSIS REQUEST

Work Order Notes

Cost Center: 1056651001
 Incident # NAPP2113750980

Project Name:	Ross Draw 25 N	Turn Around	
Project Number:	31403236.014.0129	Routine	☐
P.O. Number:		Rush:	24H
Sampler's Name:	Elliot Lee	Due Date:	

Number of Containers

TPH (EPA 8015)

BTEX (EPA 0-8021)

Chloride (EPA 300.0)



890-881 Chain of Custody

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

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Sample Comments
FS07	S	6/30/2021	10:43	2'	1	X	X	X	COMPOSITE
SW04	S	6/30/2021	10:50	0-2'	1	X	X	X	COMPOSITE
FS06	S	6/30/2021	11:57	2'	1	X	X	X	COMPOSITE
SW02	S	6/30/2021	12:05	0-2'	1	X	X	X	COMPOSITE
SW03	S	6/30/2021	12:13	0-2'	1	X	X	X	COMPOSITE
FS08	S	6/30/2021	12:20	2'	1	X	X	X	COMPOSITE
FS09	S	6/30/2021	13:23	2'	1	X	X	X	COMPOSITE
FS10	S	6/30/2021	14:20	2'	1	X	X	X	COMPOSITE
SW05	S	6/30/2021	15:00	0-2'	1	X	X	X	COMPOSITE

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	7/1/21 @ 10:45	2 <i>[Signature]</i>	<i>[Signature]</i>	7/1/21 @ 10:45
3 <i>[Signature]</i>			4		
5			6		

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

Environment Testing

Chain of Custody Record

Carlson's AcneCo, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3189 Fax 575-988-3189

Client Information (Sub Contract Lab)						Sampler:	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact:						Kramer, Jessica			890-284 1
Shipping/Receiving						E-Mail	jessica.kramer@eurofinsnet.com	State of Origin	Page:
Eurofins Xenco						Accreditations Required (See note)			Page 1 of 1
Address:						NELAP - Louisiana NELAP - Texas			Job #:
City:									890-881-1
Midland									
State, Zip									
TX 79701									
Phone									
432-704-5440(Tel)									
Email									
Project Name:									
Ross Draw 25 N									
Site									
SSOW#:									
Due Date Requested									
7/2/2021									
TAT Requested (days)									
Analysis Requested									
Field Filtered Sample (Yes or No)									
Perform MS/MSD (Yes or No)									
8015MOD_NM/8015NM_S_Prep Full TPH									
300_ORGFM_28D/DI_LEACH Chloride									
8021B/6035FP_Calc BTEX									
Total Number of containers									
Special Instructions/Note									
Preservation Codes									
A HCL									
B NaOH									
C Zn Acetate									
D Nitric Acid									
E NaHSO4									
F MeOH									
G Amchlor									
H Ascorbic Acid									
I Ice									
J DI Water									
K EDTA									
L EDA									
Other:									
M Hexane									
N None									
O AsNaO2									
P Na2O4S									
Q Na2SO3									
R Na2S2O3									
S H2SO4									
T TSP Dodecylalrate									
U Acetone									
V MCAA									
W pH 4-5									
Z other (specify)									

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-881-1

SDG Number: 31403236.014.0129

Login Number: 881

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-881-1

SDG Number: 31403236.014.0129

Login Number: 881

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 07/01/21 02:08 PM

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



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-891-1
SDG Number: 31403236.014.0129
Job Description: Ross Draw 25 N

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, TX 75207
Attention: Dan Moir

A handwritten signature in dark ink, reading "Chad A. Bechtold".

Approved for release.
Chad Bechtold
Project Manager
7/7/2021 7:29 PM

Designee for
Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
07/07/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-891-1

Project/Site: Ross Draw 25 N

SDG: 31403236.014.0129

Lab Sample ID:	890-891-1	890-891-2	890-891-3	890-891-4	890-891-5
Client Sample ID:	SW06	FS11	SW07	SW08	SW09
Depth:	0 - 2	5	0 - 5	0 - 5	0 - 5
Matrix:	Solid	Solid	Solid	Solid	Solid
Date Collected:	07/01/2021 10:32	07/01/2021 13:30	07/01/2021 14:41	07/01/2021 14:47	07/01/2021 15:00

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/07/2021 09:10	07/07/2021 09:10	07/07/2021 09:10	07/07/2021 09:10	07/07/2021 09:10
	Analyzed:	07/07/2021 13:28	07/07/2021 13:48	07/07/2021 14:09	07/07/2021 14:29	07/07/2021 14:50
Analyte	Unit/RL:	mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene		<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00199 U 0.00199
Toluene		<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00199 U 0.00199
Ethylbenzene		<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00199 U 0.00199
m-Xylene & p-Xylene		<0.00400 U 0.00400	<0.00397 U 0.00397	<0.00396 U 0.00396	<0.00396 U 0.00396	<0.00398 U 0.00398
o-Xylene		<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00198 U 0.00198	<0.00199 U 0.00199
Xylenes, Total		<0.00400 U 0.00400	<0.00397 U 0.00397	<0.00396 U 0.00396	<0.00396 U 0.00396	<0.00398 U 0.00398
Total BTEX		<0.00400 U 0.00400	<0.00397 U 0.00397	<0.00396 U 0.00396	<0.00396 U 0.00396	<0.00398 U 0.00398

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

	Prepared:	07/07/2021 11:31	07/07/2021 11:31	07/07/2021 11:31	07/07/2021 11:31	07/07/2021 11:31
	Analyzed:	07/07/2021 14:30	07/07/2021 15:32	07/07/2021 15:54	07/07/2021 16:14	07/07/2021 16:35
Analyte	Unit/RL:	mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10		<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0	<49.8 U 49.8	<49.8 U 49.8
Diesel Range Organics (Over C10-C28)		<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0	<49.8 U 49.8	<49.8 U 49.8
Oil Range Organics (Over C28-C36)		<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0	<49.8 U 49.8	<49.8 U 49.8
Total TPH		<49.7 U 49.7	<49.9 U 49.9	<50.0 U 50.0	<49.8 U 49.8	<49.8 U 49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:					
	Analyzed:	07/07/2021 14:13	07/07/2021 14:19	07/07/2021 14:24	07/07/2021 14:30	07/07/2021 14:46
Analyte	Unit/RL:	mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride		28.4 5.04	53.0 5.05	140 5.02	41.9 4.97	176 4.96

Client Sample Result Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Lab Sample ID: 890-891-6
Client Sample ID: FS12
Depth: 5
Matrix: Solid
Date Collected: 07/01/2021 15:05

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 07/07/2021 09:10
Analyzed: 07/07/2021 15:10

Analyte	Unit/RL:	mg/Kg	RL
Benzene	<0.00200 U	0.00200	
Toluene	<0.00200 U	0.00200	
Ethylbenzene	<0.00200 U	0.00200	
m-Xylene & p-Xylene	<0.00400 U	0.00400	
o-Xylene	<0.00200 U	0.00200	
Xylenes, Total	<0.00400 U	0.00400	
Total BTEX	<0.00400 U	0.00400	

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

Prepared: 07/07/2021 11:31
Analyzed: 07/07/2021 16:56

Analyte	Unit/RL:	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10	<49.7 U	49.7	
Diesel Range Organics (Over C10-C28)	<49.7 U	49.7	
Oil Range Organics (Over C28-C36)	<49.7 U	49.7	
Total TPH	<49.7 U	49.7	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:
Analyzed: 07/07/2021 14:52

Analyte	Unit/RL:	mg/Kg	RL
Chloride	10.9	5.00	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-891-1

Laboratory Sample Delivery Group: 31403236.014.0129

Client Project/Site: Ross Draw 25 N

For:

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

Attn: Dan Moir

Authorized for release by:

7/7/2021 7:27:46 PM

Chad Bechtold, Project Manager
(813)690-3563

chad.bechtold@eurofinset.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

jessica.kramer@eurofinset.com

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

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

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Laboratory Job ID: 890-891-1
SDG: 31403236.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Job ID: 890-891-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-891-1

Receipt

The samples were received on 7/6/2021 1:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Client Sample ID: SW06

Lab Sample ID: 890-891-1

Date Collected: 07/01/21 10:32

Matrix: Solid

Date Received: 07/06/21 13:52

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 13:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 13:28	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	07/07/21 09:10	07/07/21 13:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130	07/07/21 09:10	07/07/21 13:28	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	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 14:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 14:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 14:30	1
Total TPH	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	07/07/21 11:31	07/07/21 14:30	1
o-Terphenyl	102		70 - 130	07/07/21 11:31	07/07/21 14:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		5.04	mg/Kg			07/07/21 14:13	1

Client Sample ID: FS11

Lab Sample ID: 890-891-2

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/06/21 13:52

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 13:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 13:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 13:48	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/07/21 09:10	07/07/21 13:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 13:48	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/07/21 09:10	07/07/21 13:48	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/07/21 09:10	07/07/21 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	07/07/21 09:10	07/07/21 13:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130	07/07/21 09:10	07/07/21 13:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Client Sample ID: FS11

Lab Sample ID: 890-891-2

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/06/21 13:52

Sample Depth: - 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	<49.9	U	49.9	mg/Kg		07/07/21 11:31	07/07/21 15:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/07/21 11:31	07/07/21 15:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/07/21 11:31	07/07/21 15:32	1
Total TPH	<49.9	U	49.9	mg/Kg		07/07/21 11:31	07/07/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	07/07/21 11:31	07/07/21 15:32	1
o-Terphenyl	102		70 - 130	07/07/21 11:31	07/07/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.0		5.05	mg/Kg			07/07/21 14:19	1

Client Sample ID: SW07

Lab Sample ID: 890-891-3

Date Collected: 07/01/21 14:41

Matrix: Solid

Date Received: 07/06/21 13:52

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/07/21 09:10	07/07/21 14:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/07/21 09:10	07/07/21 14:09	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/07/21 09:10	07/07/21 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	07/07/21 09:10	07/07/21 14:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/07/21 09:10	07/07/21 14:09	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		07/07/21 11:31	07/07/21 15:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/07/21 11:31	07/07/21 15:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/21 11:31	07/07/21 15:54	1
Total TPH	<50.0	U	50.0	mg/Kg		07/07/21 11:31	07/07/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	07/07/21 11:31	07/07/21 15:54	1
o-Terphenyl	102		70 - 130	07/07/21 11:31	07/07/21 15:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.02	mg/Kg			07/07/21 14:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Client Sample ID: SW08

Lab Sample ID: 890-891-4

Date Collected: 07/01/21 14:47

Matrix: Solid

Date Received: 07/06/21 13:52

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/07/21 09:10	07/07/21 14:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/07/21 09:10	07/07/21 14:29	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/07/21 09:10	07/07/21 14:29	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/07/21 09:10	07/07/21 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/07/21 09:10	07/07/21 14:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/07/21 09:10	07/07/21 14:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:14	1
Total TPH	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	07/07/21 11:31	07/07/21 16:14	1
o-Terphenyl	98		70 - 130	07/07/21 11:31	07/07/21 16:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		4.97	mg/Kg			07/07/21 14:30	1

Client Sample ID: SW09

Lab Sample ID: 890-891-5

Date Collected: 07/01/21 15:00

Matrix: Solid

Date Received: 07/06/21 13:52

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		07/07/21 09:10	07/07/21 14:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/07/21 09:10	07/07/21 14:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/07/21 09:10	07/07/21 14:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/07/21 09:10	07/07/21 14:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/07/21 09:10	07/07/21 14:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/07/21 09:10	07/07/21 14:50	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/07/21 09:10	07/07/21 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	07/07/21 09:10	07/07/21 14:50	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/07/21 09:10	07/07/21 14:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Client Sample ID: SW09

Lab Sample ID: 890-891-5

Date Collected: 07/01/21 15:00

Matrix: Solid

Date Received: 07/06/21 13:52

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	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:35	1
Total TPH	<49.8	U	49.8	mg/Kg		07/07/21 11:31	07/07/21 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/07/21 11:31	07/07/21 16:35	1
o-Terphenyl	98		70 - 130	07/07/21 11:31	07/07/21 16:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.96	mg/Kg			07/07/21 14:46	1

Client Sample ID: FS12

Lab Sample ID: 890-891-6

Date Collected: 07/01/21 15:05

Matrix: Solid

Date Received: 07/06/21 13:52

Sample Depth: - 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		07/07/21 09:10	07/07/21 15:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 15:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 15:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 15:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 15:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 15:10	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/07/21 09:10	07/07/21 15:10	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/07/21 09:10	07/07/21 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 16:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 16:56	1
Total TPH	<49.7	U	49.7	mg/Kg		07/07/21 11:31	07/07/21 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	07/07/21 11:31	07/07/21 16:56	1
o-Terphenyl	101		70 - 130	07/07/21 11:31	07/07/21 16:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		5.00	mg/Kg			07/07/21 14:52	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-891-1	SW06	118	102
890-891-2	FS11	121	102
890-891-3	SW07	125	100
890-891-4	SW08	124	101
890-891-5	SW09	121	98
890-891-6	FS12	117	94
LCS 880-4921/1-A	Lab Control Sample	116	108
LCSD 880-4921/2-A	Lab Control Sample Dup	119	109
MB 880-4921/5-A	Method Blank	98	94
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)
890-891-1	SW06	88	102
890-891-1 MS	SW06	93	96
890-891-1 MSD	SW06	95	99
890-891-2	FS11	89	102
890-891-3	SW07	89	102
890-891-4	SW08	86	98
890-891-5	SW09	87	98
890-891-6	FS12	89	101
LCS 880-4941/2-A	Lab Control Sample	94	98
LCSD 880-4941/3-A	Lab Control Sample Dup	90	97
MB 880-4941/1-A	Method Blank	92	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4921/5-A

Matrix: Solid

Analysis Batch: 4922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4921

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/07/21 09:10	07/07/21 12:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 12:26	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/07/21 09:10	07/07/21 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/07/21 09:10	07/07/21 12:26	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/07/21 09:10	07/07/21 12:26	1

Lab Sample ID: LCS 880-4921/1-A

Matrix: Solid

Analysis Batch: 4922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07926		mg/Kg		79	70 - 130
Toluene	0.100	0.08390		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.09286		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1989		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1064		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-4921/2-A

Matrix: Solid

Analysis Batch: 4922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4921

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07667		mg/Kg		77	70 - 130	3	35
Toluene	0.100	0.07930		mg/Kg		79	70 - 130	6	35
Ethylbenzene	0.100	0.08854		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1892		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

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

Lab Sample ID: MB 880-4941/1-A

Matrix: Solid

Analysis Batch: 4932

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4941

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		07/07/21 11:31	07/07/21 12:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/07/21 11:31	07/07/21 12:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/07/21 11:31	07/07/21 12:43	1
Total TPH	<50.0	U	50.0	mg/Kg		07/07/21 11:31	07/07/21 12:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/07/21 11:31	07/07/21 12:43	1
o-Terphenyl	106		70 - 130	07/07/21 11:31	07/07/21 12:43	1

Lab Sample ID: LCS 880-4941/2-A

Matrix: Solid

Analysis Batch: 4932

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	939.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1018		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-4941/3-A

Matrix: Solid

Analysis Batch: 4932

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4941

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	905.1		mg/Kg		91	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	986.2		mg/Kg		99	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-891-1 MS

Matrix: Solid

Analysis Batch: 4932

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 4941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	1047		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	999	1130		mg/Kg		113	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

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

Lab Sample ID: 890-891-1 MS

Matrix: Solid

Analysis Batch: 4932

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 4941

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-891-1 MSD

Matrix: Solid

Analysis Batch: 4932

Client Sample ID: SW06

Prep Type: Total/NA

Prep Batch: 4941

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	1109		mg/Kg		111	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	1161		mg/Kg		116	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	99		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4909/1-A

Matrix: Solid

Analysis Batch: 4945

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			07/07/21 12:57	1		

Lab Sample ID: LCS 880-4909/2-A

Matrix: Solid

Analysis Batch: 4945

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	238.7		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-4909/3-A

Matrix: Solid

Analysis Batch: 4945

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	240.0		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 890-891-4 MS

Matrix: Solid

Analysis Batch: 4945

Client Sample ID: SW08

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	41.9		249	295.4		mg/Kg		102	90 - 110		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-891-4 MSD							Client Sample ID: SW08					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 4945												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Chloride	41.9		249	306.2		mg/Kg		106	90 - 110	4	20	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

GC VOA

Prep Batch: 4921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-891-1	SW06	Total/NA	Solid	5035	
890-891-2	FS11	Total/NA	Solid	5035	
890-891-3	SW07	Total/NA	Solid	5035	
890-891-4	SW08	Total/NA	Solid	5035	
890-891-5	SW09	Total/NA	Solid	5035	
890-891-6	FS12	Total/NA	Solid	5035	
MB 880-4921/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4921/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4921/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-891-1	SW06	Total/NA	Solid	8021B	4921
890-891-2	FS11	Total/NA	Solid	8021B	4921
890-891-3	SW07	Total/NA	Solid	8021B	4921
890-891-4	SW08	Total/NA	Solid	8021B	4921
890-891-5	SW09	Total/NA	Solid	8021B	4921
890-891-6	FS12	Total/NA	Solid	8021B	4921
MB 880-4921/5-A	Method Blank	Total/NA	Solid	8021B	4921
LCS 880-4921/1-A	Lab Control Sample	Total/NA	Solid	8021B	4921
LCSD 880-4921/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4921

GC Semi VOA

Analysis Batch: 4932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-891-1	SW06	Total/NA	Solid	8015B NM	4941
890-891-2	FS11	Total/NA	Solid	8015B NM	4941
890-891-3	SW07	Total/NA	Solid	8015B NM	4941
890-891-4	SW08	Total/NA	Solid	8015B NM	4941
890-891-5	SW09	Total/NA	Solid	8015B NM	4941
890-891-6	FS12	Total/NA	Solid	8015B NM	4941
MB 880-4941/1-A	Method Blank	Total/NA	Solid	8015B NM	4941
LCS 880-4941/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4941
LCSD 880-4941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4941
890-891-1 MS	SW06	Total/NA	Solid	8015B NM	4941
890-891-1 MSD	SW06	Total/NA	Solid	8015B NM	4941

Prep Batch: 4941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-891-1	SW06	Total/NA	Solid	8015NM Prep	
890-891-2	FS11	Total/NA	Solid	8015NM Prep	
890-891-3	SW07	Total/NA	Solid	8015NM Prep	
890-891-4	SW08	Total/NA	Solid	8015NM Prep	
890-891-5	SW09	Total/NA	Solid	8015NM Prep	
890-891-6	FS12	Total/NA	Solid	8015NM Prep	
MB 880-4941/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4941/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-891-1 MS	SW06	Total/NA	Solid	8015NM Prep	
890-891-1 MSD	SW06	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

HPLC/IC

Leach Batch: 4909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-891-1	SW06	Soluble	Solid	DI Leach	
890-891-2	FS11	Soluble	Solid	DI Leach	
890-891-3	SW07	Soluble	Solid	DI Leach	
890-891-4	SW08	Soluble	Solid	DI Leach	
890-891-5	SW09	Soluble	Solid	DI Leach	
890-891-6	FS12	Soluble	Solid	DI Leach	
MB 880-4909/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4909/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4909/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-891-4 MS	SW08	Soluble	Solid	DI Leach	
890-891-4 MSD	SW08	Soluble	Solid	DI Leach	

Analysis Batch: 4945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-891-1	SW06	Soluble	Solid	300.0	4909
890-891-2	FS11	Soluble	Solid	300.0	4909
890-891-3	SW07	Soluble	Solid	300.0	4909
890-891-4	SW08	Soluble	Solid	300.0	4909
890-891-5	SW09	Soluble	Solid	300.0	4909
890-891-6	FS12	Soluble	Solid	300.0	4909
MB 880-4909/1-A	Method Blank	Soluble	Solid	300.0	4909
LCS 880-4909/2-A	Lab Control Sample	Soluble	Solid	300.0	4909
LCSD 880-4909/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4909
890-891-4 MS	SW08	Soluble	Solid	300.0	4909
890-891-4 MSD	SW08	Soluble	Solid	300.0	4909

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Client Sample ID: SW06

Lab Sample ID: 890-891-1

Date Collected: 07/01/21 10:32

Matrix: Solid

Date Received: 07/06/21 13:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4921	07/07/21 09:10	KL	XEN MID
Total/NA	Analysis	8021B		1	4922	07/07/21 13:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			4941	07/07/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4932	07/07/21 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			4909	07/06/21 16:41	CH	XEN MID
Soluble	Analysis	300.0		1	4945	07/07/21 14:13	CH	XEN MID

Client Sample ID: FS11

Lab Sample ID: 890-891-2

Date Collected: 07/01/21 13:30

Matrix: Solid

Date Received: 07/06/21 13:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4921	07/07/21 09:10	KL	XEN MID
Total/NA	Analysis	8021B		1	4922	07/07/21 13:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			4941	07/07/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4932	07/07/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			4909	07/06/21 16:41	CH	XEN MID
Soluble	Analysis	300.0		1	4945	07/07/21 14:19	CH	XEN MID

Client Sample ID: SW07

Lab Sample ID: 890-891-3

Date Collected: 07/01/21 14:41

Matrix: Solid

Date Received: 07/06/21 13:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4921	07/07/21 09:10	KL	XEN MID
Total/NA	Analysis	8021B		1	4922	07/07/21 14:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			4941	07/07/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4932	07/07/21 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			4909	07/06/21 16:41	CH	XEN MID
Soluble	Analysis	300.0		1	4945	07/07/21 14:24	CH	XEN MID

Client Sample ID: SW08

Lab Sample ID: 890-891-4

Date Collected: 07/01/21 14:47

Matrix: Solid

Date Received: 07/06/21 13:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4921	07/07/21 09:10	KL	XEN MID
Total/NA	Analysis	8021B		1	4922	07/07/21 14:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			4941	07/07/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4932	07/07/21 16:14	AJ	XEN MID
Soluble	Leach	DI Leach			4909	07/06/21 16:41	CH	XEN MID
Soluble	Analysis	300.0		1	4945	07/07/21 14:30	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Client Sample ID: SW09

Lab Sample ID: 890-891-5

Date Collected: 07/01/21 15:00

Matrix: Solid

Date Received: 07/06/21 13:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4921	07/07/21 09:10	KL	XEN MID
Total/NA	Analysis	8021B		1	4922	07/07/21 14:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			4941	07/07/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4932	07/07/21 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			4909	07/06/21 16:41	CH	XEN MID
Soluble	Analysis	300.0		1	4945	07/07/21 14:46	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-891-6

Date Collected: 07/01/21 15:05

Matrix: Solid

Date Received: 07/06/21 13:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4921	07/07/21 09:10	KL	XEN MID
Total/NA	Analysis	8021B		1	4922	07/07/21 15:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			4941	07/07/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4932	07/07/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			4909	07/06/21 16:41	CH	XEN MID
Soluble	Analysis	300.0		1	4945	07/07/21 14:52	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25 N

Job ID: 890-891-1
SDG: 31403236.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-891-1	SW06	Solid	07/01/21 10:32	07/06/21 13:52	0 - 2
890-891-2	FS11	Solid	07/01/21 13:30	07/06/21 13:52	- 5
890-891-3	SW07	Solid	07/01/21 14:41	07/06/21 13:52	0 - 5
890-891-4	SW08	Solid	07/01/21 14:47	07/06/21 13:52	0 - 5
890-891-5	SW09	Solid	07/01/21 15:00	07/06/21 13:52	0 - 5
890-891-6	FS12	Solid	07/01/21 15:05	07/06/21 13:52	- 5



Chain of Custody

Work Order No:

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-1111
Hobbs, NM (575-392-7550)

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Litrell
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 e Green Street
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlsbad, NM, 88220
Phone:	(432) 256-3849	Email:	Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com

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

Project Name:	Ross Draw 25 N	Turn Around	ANALYSIS REQUEST						Work Order Notes
Project Number:	31403236.014.0129	Routine							Cost Center : 1056651001
P.O. Number:		Rush:							Incident # NAP P213750980
Sampler's Name:	Elliot Lee	Due Date:							

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	2.8/2.4	Thermometer ID					
Received Intact:	(es) No	2A7M001					
Cooler Custody Seals:	Yes No	N/A		Correction Factor:		-0.2	
Sample Custody Seals:	Yes No	N/A		Total Containers:			

Number of Containers

PA 8015)

EPA 0=8021)

le (EPA 300.0)



890-891 Chain of Custody

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

[illegible]

Total	200.7 / 6010	200.8 / 6020:	
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
TCPLP / SPLP 6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Ge Ag Ti U	1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	07/06/21 1402M	<i>[Signature]</i>	<i>[Signature]</i>	7-6-21 1345

Revised Date 05/14/18 Rev 2011

Elrofins Xenco Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)					
Client Contact:		Sampler	Lab PM		COC No.
Shipping/Receiving		Phone	Kramer Jessica		890-288 1
Company		E-Mail	jessica.kramer@eurofinet.com		Page: Page 1 of 1
Eurofins Xenco				Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	Job #: 890-891-1
Address:		Due Date Requested 7/17/2021			
City:		TAT Requested (days)			
Midland					
State Zip					
TX 79701					
Phone		PO #:			
432-704-5440(Tel)		WO #:			
Email					
Project Name		Project #:			
Ross Draw 25 N		89000004			
Site:		SSOW#:			
Analysis Requested					
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		8016MOD_NM/8016NM_S_Prep Full TPH			
		300_ORGFM_28D/DI_LEACH Chloride			
		8021B/6035FP_Calc BTEX			
		Total Number of containers			
Special Instructions/Note:					
SW06 (890-891-1) Solid 1					
FS11 (890-891-2) Mountain 1					
SW07 (890-891-3) Solid 1					
SW08 (890-891-4) Solid 1					
SW09 (890-891-5) Solid 1					
FS12 (890-891-6) Solid 1					
Total Containers: 6					
Preservation Codes					
A HCL	M Hexane	J Ice	V MCAA	L EDTA	Z other (specify)
B NaOH	N None	K DI Water	W pH 4.5		
C Zn Acetate	O AsHAcO2	H Ascobic Acid	T TSP Dodecylhydrate		
D Nitric Acid	P Na2CO3S	I Aceione			
E NaHSO4	Q Na2SO4S	J Di Water			
F MeOH	R Na2SCOS	K EDTA			
G Amorph	S H2SO4	L EDTA			
H Ascorbic Acid	T TSP Dodecylhydrate				
I Ice	U Acetone				
J DI Water	V MCAA				
K EDTA	W pH 4.5				
L EDTA	Z other (specify)				
Other:					
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC					
Possible Hazard Identification					
Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2 Special Instructions/QC Requirements					
Empty Kit Relinquished by Date Time Method of Shipment					
Relinquished by CWC Corp 7.6.21 Date/Time Company Received by JESSICA KRAMER Date/Time 7-7-25 11:00am Company					
Relinquished by Date/Time Company Received by Date/Time Company					
Relinquished by Date/Time Company Received by Date/Time Company					
Custody Seals Intact: A Yes Δ No Custody Seal No Cooler Temperature(s) °C and Other Remarks					

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-891-1

SDG Number: 31403236.014.0129

Login Number: 891

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-891-1

SDG Number: 31403236.014.0129

Login Number: 891

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

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

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-892-1

Laboratory Sample Delivery Group: 31403236.014.0129

Client Project/Site: Ross Draw 25N Battery

Revision: 1

For:

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

Attn: Tacoma Morrissey

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

Authorized for release by:

7/20/2021 8:59:23 AM

Jessica Kramer, Project Manager
(432)704-5440

jessica.kramer@eurofinset.com

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results through

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

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

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Laboratory Job ID: 890-892-1
SDG: 31403236.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Job ID: 890-892-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-892-1

Receipt

The samples were received on 7/7/2021 8:41 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 5.2°C

Receipt Exceptions

The container labels for two samples did not match the Chain-of-Custody (COC) sample IDs. The sample listed on the COC as SW10 collected on 7/6/2021 at 12:58 had a container label with the ID as SW11 from the same date and time. The sample listed on the COC as SW11 collected on 7/6/2021 at 13:02 had a container label with the ID as SW12 from the same date and time. The laboratory followed the sample IDs as listed on the COC for these samples.

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS13

Lab Sample ID: 890-892-1

Date Collected: 07/06/21 12:50

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199	mg/Kg		07/08/21 09:34	07/08/21 15:21	1
Toluene	<0.00199	U F2 F1	0.00199	mg/Kg		07/08/21 09:34	07/08/21 15:21	1
Ethylbenzene	<0.00199	U F2 F1	0.00199	mg/Kg		07/08/21 09:34	07/08/21 15:21	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398	mg/Kg		07/08/21 09:34	07/08/21 15:21	1
o-Xylene	<0.00199	U F2 F1	0.00199	mg/Kg		07/08/21 09:34	07/08/21 15:21	1
Xylenes, Total	<0.00398	U F2 F1	0.00398	mg/Kg		07/08/21 09:34	07/08/21 15:21	1
Total BTEX	<0.00398	U F2 F1	0.00398	mg/Kg		07/08/21 09:34	07/08/21 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/08/21 09:34	07/08/21 15:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/08/21 09:34	07/08/21 15:21	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	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 13:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 13:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 13:51	1
Total TPH	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/08/21 10:12	07/08/21 13:51	1
o-Terphenyl	99		70 - 130	07/08/21 10:12	07/08/21 13:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		5.04	mg/Kg			07/08/21 15:20	1

Client Sample ID: FS14

Lab Sample ID: 890-892-2

Date Collected: 07/06/21 12:54

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 15:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 15:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 15:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/08/21 09:34	07/08/21 15:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 15:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/08/21 09:34	07/08/21 15:41	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/08/21 09:34	07/08/21 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/08/21 09:34	07/08/21 15:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/08/21 09:34	07/08/21 15:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS14

Lab Sample ID: 890-892-2

Date Collected: 07/06/21 12:54

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 14:54	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/08/21 10:12	07/08/21 14:54	1
o-Terphenyl	106		70 - 130	07/08/21 10:12	07/08/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		4.99	mg/Kg			07/08/21 15:34	1

Client Sample ID: FS15

Lab Sample ID: 890-892-3

Date Collected: 07/06/21 13:08

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/08/21 09:34	07/08/21 16:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/08/21 09:34	07/08/21 16:02	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/08/21 09:34	07/08/21 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/08/21 09:34	07/08/21 16:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/08/21 09:34	07/08/21 16:02	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		07/08/21 10:12	07/08/21 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 15:14	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	07/08/21 10:12	07/08/21 15:14	1
o-Terphenyl	94		70 - 130	07/08/21 10:12	07/08/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.96	mg/Kg			07/08/21 15:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS16

Lab Sample ID: 890-892-4

Date Collected: 07/06/21 13:10

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/08/21 09:34	07/08/21 16:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 16:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/08/21 09:34	07/08/21 16:22	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		07/08/21 09:34	07/08/21 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/08/21 09:34	07/08/21 16:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/08/21 09:34	07/08/21 16:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:35	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/08/21 10:12	07/08/21 15:35	1
o-Terphenyl	109		70 - 130	07/08/21 10:12	07/08/21 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	494		4.96	mg/Kg			07/08/21 15:44	1

Client Sample ID: FS17

Lab Sample ID: 890-892-5

Date Collected: 07/06/21 13:12

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/08/21 09:34	07/08/21 16:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/08/21 09:34	07/08/21 16:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/08/21 09:34	07/08/21 16:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/08/21 09:34	07/08/21 16:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/08/21 09:34	07/08/21 16:42	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/08/21 09:34	07/08/21 16:42	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		07/08/21 09:34	07/08/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/08/21 09:34	07/08/21 16:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 16:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS17

Lab Sample ID: 890-892-5

Date Collected: 07/06/21 13:12

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:56	1
Total TPH	<49.8	U	49.8	mg/Kg		07/08/21 10:12	07/08/21 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/08/21 10:12	07/08/21 15:56	1
o-Terphenyl	107		70 - 130	07/08/21 10:12	07/08/21 15:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		4.99	mg/Kg			07/08/21 15:49	1

Client Sample ID: FS18

Lab Sample ID: 890-892-6

Date Collected: 07/06/21 13:16

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/08/21 09:34	07/08/21 17:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/08/21 09:34	07/08/21 17:03	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		07/08/21 09:34	07/08/21 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/08/21 09:34	07/08/21 17:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 17:03	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	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 16:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 16:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 16:17	1
Total TPH	<49.7	U	49.7	mg/Kg		07/08/21 10:12	07/08/21 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/08/21 10:12	07/08/21 16:17	1
o-Terphenyl	104		70 - 130	07/08/21 10:12	07/08/21 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		5.05	mg/Kg			07/08/21 16:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS19

Lab Sample ID: 890-892-7

Date Collected: 07/06/21 13:20

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 17:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 17:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 17:23	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/08/21 09:34	07/08/21 17:23	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 17:23	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		07/08/21 10:12	07/08/21 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:38	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/08/21 10:12	07/08/21 16:38	1
o-Terphenyl	108		70 - 130	07/08/21 10:12	07/08/21 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.03	mg/Kg			07/08/21 16:09	1

Client Sample ID: SW10

Lab Sample ID: 890-892-8

Date Collected: 07/06/21 12:58

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 17:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 17:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 17:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/08/21 09:34	07/08/21 17:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/08/21 09:34	07/08/21 17:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/08/21 09:34	07/08/21 17:44	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		07/08/21 09:34	07/08/21 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/08/21 09:34	07/08/21 17:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/08/21 09:34	07/08/21 17:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: SW10

Lab Sample ID: 890-892-8

Date Collected: 07/06/21 12:58

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:59	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/08/21 10:12	07/08/21 16:59	1
o-Terphenyl	108		70 - 130	07/08/21 10:12	07/08/21 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		5.02	mg/Kg			07/08/21 16:14	1

Client Sample ID: SW11

Lab Sample ID: 890-892-9

Date Collected: 07/06/21 13:02

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 18:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 18:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 18:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/08/21 09:34	07/08/21 18:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 18:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/08/21 09:34	07/08/21 18:04	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/08/21 09:34	07/08/21 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/08/21 09:34	07/08/21 18:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/08/21 09:34	07/08/21 18:04	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		07/08/21 10:12	07/08/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 17:20	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	07/08/21 10:12	07/08/21 17:20	1
o-Terphenyl	111		70 - 130	07/08/21 10:12	07/08/21 17:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		5.00	mg/Kg			07/08/21 16:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: SW12

Lab Sample ID: 890-892-10

Date Collected: 07/06/21 14:45

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 18:24	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 18:24	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 18:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/08/21 09:34	07/08/21 18:24	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 18:24	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/08/21 09:34	07/08/21 18:24	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/08/21 09:34	07/08/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/08/21 09:34	07/08/21 18:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/08/21 09:34	07/08/21 18:24	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		07/08/21 10:12	07/08/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 17:41	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/08/21 10:12	07/08/21 17:41	1
o-Terphenyl	109		70 - 130	07/08/21 10:12	07/08/21 17:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		4.98	mg/Kg			07/08/21 16:23	1

Client Sample ID: PH04

Lab Sample ID: 890-892-11

Date Collected: 07/06/21 15:16

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 19:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 19:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 19:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/08/21 09:34	07/08/21 19:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 19:46	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/08/21 09:34	07/08/21 19:46	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		07/08/21 09:34	07/08/21 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/08/21 09:34	07/08/21 19:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 19:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: PH04

Lab Sample ID: 890-892-11

Date Collected: 07/06/21 15:16

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 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		07/08/21 10:12	07/08/21 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 18:23	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/08/21 10:12	07/08/21 18:23	1
o-Terphenyl	115		70 - 130	07/08/21 10:12	07/08/21 18:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	474		24.8	mg/Kg			07/08/21 16:28	5

Client Sample ID: PH05

Lab Sample ID: 890-892-12

Date Collected: 07/06/21 15:03

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 20:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 20:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 20:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/08/21 09:34	07/08/21 20:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/08/21 09:34	07/08/21 20:06	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/08/21 09:34	07/08/21 20:06	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		07/08/21 09:34	07/08/21 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/08/21 09:34	07/08/21 20:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/08/21 09:34	07/08/21 20:06	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		07/08/21 10:12	07/08/21 18:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 18:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 18:44	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/08/21 10:12	07/08/21 18:44	1
o-Terphenyl	115		70 - 130	07/08/21 10:12	07/08/21 18:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	258		5.01	mg/Kg			07/08/21 16:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: PH04A

Lab Sample ID: 890-892-13

Date Collected: 07/06/21 15:23

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 20:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 20:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 20:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/08/21 09:34	07/08/21 20:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/08/21 09:34	07/08/21 20:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/08/21 09:34	07/08/21 20:26	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		07/08/21 09:34	07/08/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/08/21 09:34	07/08/21 20:26	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/08/21 09:34	07/08/21 20:26	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		07/08/21 10:12	07/08/21 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 19:05	1
Total TPH	<49.9	U	49.9	mg/Kg		07/08/21 10:12	07/08/21 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/08/21 10:12	07/08/21 19:05	1
o-Terphenyl	106		70 - 130	07/08/21 10:12	07/08/21 19:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.11		5.04	mg/Kg			07/08/21 16:48	1

Client Sample ID: PH05A

Lab Sample ID: 890-892-14

Date Collected: 07/06/21 15:10

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 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		07/08/21 09:34	07/08/21 20:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 20:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 20:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 20:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 20:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 20:47	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/08/21 09:34	07/08/21 20:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/08/21 09:34	07/08/21 20:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: PH05A

Lab Sample ID: 890-892-14

Date Collected: 07/06/21 15:10

Matrix: Solid

Date Received: 07/07/21 08:41

Sample Depth: - 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		07/08/21 10:12	07/08/21 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 19:26	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	07/08/21 10:12	07/08/21 19:26	1
o-Terphenyl	110		70 - 130	07/08/21 10:12	07/08/21 19:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		5.03	mg/Kg			07/08/21 17:02	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-892-1	FS13	103	94
890-892-1 MS	FS13	130	102
890-892-1 MSD	FS13	119	93
890-892-2	FS14	108	95
890-892-3	FS15	110	97
890-892-4	FS16	106	95
890-892-5	FS17	106	93
890-892-6	FS18	107	93
890-892-7	FS19	103	93
890-892-8	SW10	113	92
890-892-9	SW11	109	95
890-892-10	SW12	102	94
890-892-11	PH04	107	93
890-892-12	PH05	98	92
890-892-13	PH04A	97	94
890-892-14	PH05A	108	91
LCS 880-4952/1-A	Lab Control Sample	120	105
LCSD 880-4952/2-A	Lab Control Sample Dup	119	106
MB 880-4952/5-A	Method Blank	88	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-892-1	FS13	85	99
890-892-1 MS	FS13	89	96
890-892-1 MSD	FS13	87	93
890-892-2	FS14	92	106
890-892-3	FS15	84	94
890-892-4	FS16	93	109
890-892-5	FS17	93	107
890-892-6	FS18	90	104
890-892-7	FS19	93	108
890-892-8	SW10	92	108
890-892-9	SW11	95	111
890-892-10	SW12	93	109
890-892-11	PH04	98	115
890-892-12	PH05	98	115
890-892-13	PH04A	93	106
890-892-14	PH05A	94	110
LCS 880-4956/2-A	Lab Control Sample	86	92
LCSD 880-4956/3-A	Lab Control Sample Dup	87	91
MB 880-4956/1-A	Method Blank	82	96

Surrogate Legend

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 890-892-1
SDG: 31403236.014.0129

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Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4952/5-A

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4952

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 14:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 14:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/08/21 09:34	07/08/21 14:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/08/21 09:34	07/08/21 14:59	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 14:59	1

Lab Sample ID: LCS 880-4952/1-A

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07674		mg/Kg		77	70 - 130
Toluene	0.100	0.08101		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.09256		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-4952/2-A

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07687		mg/Kg		77	70 - 130	0	35
Toluene	0.100	0.08053		mg/Kg		81	70 - 130	1	35
Ethylbenzene	0.100	0.09233		mg/Kg		92	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-892-1 MS

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 4952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.100	0.06514	F1	mg/Kg		65	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

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

Lab Sample ID: 890-892-1 MS

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 4952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00199	U F2 F1	0.100	0.07177		mg/Kg		71	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.08190		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.1781		mg/Kg		89	70 - 130
o-Xylene	<0.00199	U F2 F1	0.100	0.09427		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	130		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 890-892-1 MSD

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 4952

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	0.03582	F2 F1	mg/Kg		36	70 - 130	58	35
Toluene	<0.00199	U F2 F1	0.100	0.04524	F2 F1	mg/Kg		45	70 - 130	45	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.04936	F2 F1	mg/Kg		49	70 - 130	50	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1096	F2 F1	mg/Kg		55	70 - 130	48	35
o-Xylene	<0.00199	U F2 F1	0.100	0.05661	F2 F1	mg/Kg		56	70 - 130	50	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	93		70 - 130								

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

Lab Sample ID: MB 880-4956/1-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4956

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		07/08/21 10:12	07/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Total TPH	<50.0	U	50.0	mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			07/08/21 10:12	07/08/21 12:47	1
o-Terphenyl	96		70 - 130			07/08/21 10:12	07/08/21 12:47	1

Lab Sample ID: LCS 880-4956/2-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	969.1		mg/Kg		97	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

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

Lab Sample ID: LCS 880-4956/2-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	86		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-4956/3-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1089		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	1	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	87		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-892-1 MS

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	1153		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	999	1154		mg/Kg		116	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	89		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-892-1 MSD

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: FS13

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	997	1028		mg/Kg		103	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.7	U	997	1139		mg/Kg		114	70 - 130	1	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	87		70 - 130
o-Terphenyl	93		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4976/1-A

Matrix: Solid

Analysis Batch: 4984

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			07/08/21 15:05	1

Lab Sample ID: LCS 880-4976/2-A

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-4976/3-A

Matrix: Solid

Analysis Batch: 4984

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	239.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-892-1 MS

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: FS13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	294		252	541.7		mg/Kg		98	90 - 110

Lab Sample ID: 890-892-1 MSD

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: FS13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	294		252	540.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-892-11 MS

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: PH04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	474		1240	1777		mg/Kg		105	90 - 110

Lab Sample ID: 890-892-11 MSD

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: PH04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	474		1240	1775		mg/Kg		105	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

GC VOA

Prep Batch: 4952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-1	FS13	Total/NA	Solid	5035	
890-892-2	FS14	Total/NA	Solid	5035	
890-892-3	FS15	Total/NA	Solid	5035	
890-892-4	FS16	Total/NA	Solid	5035	
890-892-5	FS17	Total/NA	Solid	5035	
890-892-6	FS18	Total/NA	Solid	5035	
890-892-7	FS19	Total/NA	Solid	5035	
890-892-8	SW10	Total/NA	Solid	5035	
890-892-9	SW11	Total/NA	Solid	5035	
890-892-10	SW12	Total/NA	Solid	5035	
890-892-11	PH04	Total/NA	Solid	5035	
890-892-12	PH05	Total/NA	Solid	5035	
890-892-13	PH04A	Total/NA	Solid	5035	
890-892-14	PH05A	Total/NA	Solid	5035	
MB 880-4952/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-892-1 MS	FS13	Total/NA	Solid	5035	
890-892-1 MSD	FS13	Total/NA	Solid	5035	

Analysis Batch: 4964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-1	FS13	Total/NA	Solid	8021B	4952
890-892-2	FS14	Total/NA	Solid	8021B	4952
890-892-3	FS15	Total/NA	Solid	8021B	4952
890-892-4	FS16	Total/NA	Solid	8021B	4952
890-892-5	FS17	Total/NA	Solid	8021B	4952
890-892-6	FS18	Total/NA	Solid	8021B	4952
890-892-7	FS19	Total/NA	Solid	8021B	4952
890-892-8	SW10	Total/NA	Solid	8021B	4952
890-892-9	SW11	Total/NA	Solid	8021B	4952
890-892-10	SW12	Total/NA	Solid	8021B	4952
890-892-11	PH04	Total/NA	Solid	8021B	4952
890-892-12	PH05	Total/NA	Solid	8021B	4952
890-892-13	PH04A	Total/NA	Solid	8021B	4952
890-892-14	PH05A	Total/NA	Solid	8021B	4952
MB 880-4952/5-A	Method Blank	Total/NA	Solid	8021B	4952
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	8021B	4952
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4952
890-892-1 MS	FS13	Total/NA	Solid	8021B	4952
890-892-1 MSD	FS13	Total/NA	Solid	8021B	4952

GC Semi VOA

Prep Batch: 4956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-1	FS13	Total/NA	Solid	8015NM Prep	
890-892-2	FS14	Total/NA	Solid	8015NM Prep	
890-892-3	FS15	Total/NA	Solid	8015NM Prep	
890-892-4	FS16	Total/NA	Solid	8015NM Prep	
890-892-5	FS17	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

GC Semi VOA (Continued)

Prep Batch: 4956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-6	FS18	Total/NA	Solid	8015NM Prep	
890-892-7	FS19	Total/NA	Solid	8015NM Prep	
890-892-8	SW10	Total/NA	Solid	8015NM Prep	
890-892-9	SW11	Total/NA	Solid	8015NM Prep	
890-892-10	SW12	Total/NA	Solid	8015NM Prep	
890-892-11	PH04	Total/NA	Solid	8015NM Prep	
890-892-12	PH05	Total/NA	Solid	8015NM Prep	
890-892-13	PH04A	Total/NA	Solid	8015NM Prep	
890-892-14	PH05A	Total/NA	Solid	8015NM Prep	
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-892-1 MS	FS13	Total/NA	Solid	8015NM Prep	
890-892-1 MSD	FS13	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-1	FS13	Total/NA	Solid	8015B NM	4956
890-892-2	FS14	Total/NA	Solid	8015B NM	4956
890-892-3	FS15	Total/NA	Solid	8015B NM	4956
890-892-4	FS16	Total/NA	Solid	8015B NM	4956
890-892-5	FS17	Total/NA	Solid	8015B NM	4956
890-892-6	FS18	Total/NA	Solid	8015B NM	4956
890-892-7	FS19	Total/NA	Solid	8015B NM	4956
890-892-8	SW10	Total/NA	Solid	8015B NM	4956
890-892-9	SW11	Total/NA	Solid	8015B NM	4956
890-892-10	SW12	Total/NA	Solid	8015B NM	4956
890-892-11	PH04	Total/NA	Solid	8015B NM	4956
890-892-12	PH05	Total/NA	Solid	8015B NM	4956
890-892-13	PH04A	Total/NA	Solid	8015B NM	4956
890-892-14	PH05A	Total/NA	Solid	8015B NM	4956
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015B NM	4956
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4956
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4956
890-892-1 MS	FS13	Total/NA	Solid	8015B NM	4956
890-892-1 MSD	FS13	Total/NA	Solid	8015B NM	4956

HPLC/IC

Leach Batch: 4976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-1	FS13	Soluble	Solid	DI Leach	
890-892-2	FS14	Soluble	Solid	DI Leach	
890-892-3	FS15	Soluble	Solid	DI Leach	
890-892-4	FS16	Soluble	Solid	DI Leach	
890-892-5	FS17	Soluble	Solid	DI Leach	
890-892-6	FS18	Soluble	Solid	DI Leach	
890-892-7	FS19	Soluble	Solid	DI Leach	
890-892-8	SW10	Soluble	Solid	DI Leach	
890-892-9	SW11	Soluble	Solid	DI Leach	
890-892-10	SW12	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

HPLC/IC (Continued)

Leach Batch: 4976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-11	PH04	Soluble	Solid	DI Leach	
890-892-12	PH05	Soluble	Solid	DI Leach	
890-892-13	PH04A	Soluble	Solid	DI Leach	
890-892-14	PH05A	Soluble	Solid	DI Leach	
MB 880-4976/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-892-1 MS	FS13	Soluble	Solid	DI Leach	
890-892-1 MSD	FS13	Soluble	Solid	DI Leach	
890-892-11 MS	PH04	Soluble	Solid	DI Leach	
890-892-11 MSD	PH04	Soluble	Solid	DI Leach	

Analysis Batch: 4984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-892-1	FS13	Soluble	Solid	300.0	4976
890-892-2	FS14	Soluble	Solid	300.0	4976
890-892-3	FS15	Soluble	Solid	300.0	4976
890-892-4	FS16	Soluble	Solid	300.0	4976
890-892-5	FS17	Soluble	Solid	300.0	4976
890-892-6	FS18	Soluble	Solid	300.0	4976
890-892-7	FS19	Soluble	Solid	300.0	4976
890-892-8	SW10	Soluble	Solid	300.0	4976
890-892-9	SW11	Soluble	Solid	300.0	4976
890-892-10	SW12	Soluble	Solid	300.0	4976
890-892-11	PH04	Soluble	Solid	300.0	4976
890-892-12	PH05	Soluble	Solid	300.0	4976
890-892-13	PH04A	Soluble	Solid	300.0	4976
890-892-14	PH05A	Soluble	Solid	300.0	4976
MB 880-4976/1-A	Method Blank	Soluble	Solid	300.0	4976
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	300.0	4976
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4976
890-892-1 MS	FS13	Soluble	Solid	300.0	4976
890-892-1 MSD	FS13	Soluble	Solid	300.0	4976
890-892-11 MS	PH04	Soluble	Solid	300.0	4976
890-892-11 MSD	PH04	Soluble	Solid	300.0	4976

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS13

Date Collected: 07/06/21 12:50

Date Received: 07/07/21 08:41

Lab Sample ID: 890-892-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 15:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 13:51	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 15:20	CH	XEN MID

Client Sample ID: FS14

Date Collected: 07/06/21 12:54

Date Received: 07/07/21 08:41

Lab Sample ID: 890-892-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 15:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 14:54	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 15:34	CH	XEN MID

Client Sample ID: FS15

Date Collected: 07/06/21 13:08

Date Received: 07/07/21 08:41

Lab Sample ID: 890-892-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 16:02	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 15:14	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 15:39	CH	XEN MID

Client Sample ID: FS16

Date Collected: 07/06/21 13:10

Date Received: 07/07/21 08:41

Lab Sample ID: 890-892-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 16:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 15:35	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 15:44	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: FS17

Lab Sample ID: 890-892-5

Date Collected: 07/06/21 13:12

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 16:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 15:56	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 15:49	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-892-6

Date Collected: 07/06/21 13:16

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 17:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 16:17	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:04	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-892-7

Date Collected: 07/06/21 13:20

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 17:23	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 16:38	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:09	CH	XEN MID

Client Sample ID: SW10

Lab Sample ID: 890-892-8

Date Collected: 07/06/21 12:58

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 17:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 16:59	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:14	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: SW11

Lab Sample ID: 890-892-9

Date Collected: 07/06/21 13:02

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 18:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 17:20	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:18	CH	XEN MID

Client Sample ID: SW12

Lab Sample ID: 890-892-10

Date Collected: 07/06/21 14:45

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 18:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 17:41	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:23	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-892-11

Date Collected: 07/06/21 15:16

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 19:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 18:23	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		5	4984	07/08/21 16:28	CH	XEN MID

Client Sample ID: PH05

Lab Sample ID: 890-892-12

Date Collected: 07/06/21 15:03

Matrix: Solid

Date Received: 07/07/21 08:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 20:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 18:44	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:43	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Client Sample ID: PH04A

Date Collected: 07/06/21 15:23

Date Received: 07/07/21 08:41

Lab Sample ID: 890-892-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 20:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 19:05	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 16:48	CH	XEN MID

Client Sample ID: PH05A

Date Collected: 07/06/21 15:10

Date Received: 07/07/21 08:41

Lab Sample ID: 890-892-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 20:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 19:26	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 17:02	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-892-1
SDG: 31403236.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-892-1	FS13	Solid	07/06/21 12:50	07/07/21 08:41	- 2
890-892-2	FS14	Solid	07/06/21 12:54	07/07/21 08:41	- 2
890-892-3	FS15	Solid	07/06/21 13:08	07/07/21 08:41	- 2
890-892-4	FS16	Solid	07/06/21 13:10	07/07/21 08:41	- 2
890-892-5	FS17	Solid	07/06/21 13:12	07/07/21 08:41	- 2
890-892-6	FS18	Solid	07/06/21 13:16	07/07/21 08:41	- 2
890-892-7	FS19	Solid	07/06/21 13:20	07/07/21 08:41	- 2
890-892-8	SW10	Solid	07/06/21 12:58	07/07/21 08:41	0 - 2
890-892-9	SW11	Solid	07/06/21 13:02	07/07/21 08:41	0 - 2
890-892-10	SW12	Solid	07/06/21 14:45	07/07/21 08:41	0 - 2
890-892-11	PH04	Solid	07/06/21 15:16	07/07/21 08:41	- 1
890-892-12	PH05	Solid	07/06/21 15:03	07/07/21 08:41	- 1
890-892-13	PH04A	Solid	07/06/21 15:23	07/07/21 08:41	- 5
890-892-14	PH05A	Solid	07/06/21 15:10	07/07/21 08:41	- 5

Eurofins Xenco, Carlsbad



Chain of Custody

Work Order No: _____

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

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Project Manager:	Tecoma Morrissey	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	travis.casey@wsp.com, kate.jennings@wsp.com, dan.moir@wsp.com

Program: ☒ UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Deepfund ☐ State of Project: NM Reporting Level: ☐ I ☐ II ☐ III ☐ ST/UST ☐ RP ☐ vel IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:		Work Order Comments Work Order Notes
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Project Name:	Ross New 26' N Battery	Turn Around	
Project Number:	31403236.014.0129	Routine	
P.O. Number:		Rush: 48hr	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
Temperature (°C):	5.4/15.2	Thermometer ID		
Received Intact:	☒ Yes ☐ No	Correction Factor:		
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:		
Sample Custody Seals:	Yes ☒ No ☐ N/A			



890-892 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
FS26	S	7/16/21	12:50	2'	1	✓	✓	✓		INI: nAPP 2113750980 CC: 1056651001
FS27			12:54	2'	1	✓	✓	✓		
FS28			13:08	2'	1	✓	✓	✓		
FS29			13:10	2'	1	✓	✓	✓		
FS30			13:12	2'	1	✓	✓	✓		
FS31			13:16	2'	1	✓	✓	✓		
FS32			13:20	2'	1	✓	✓	✓		
SW10			12:58	0-2'	1	✓	✓	✓		
SW11			13:02	0-2'	1	✓	✓	✓		
SW12			14:45	0-2'	1	✓	✓	✓		

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7-7-21 0841			



Chain of Custody

Work Order No:

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 233-3922
Hobbs, NM (575-392-7550)

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Project Manager:	<i>Travis Morrissey</i>	Bill to: (if different)	Kyle Littell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@

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

[illegible]

SAMPLE RECEIPT					Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	Thermometer ID: 25									
Received Intact:	Yes	No								
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:						
Sample Custody Seals:	Yes	No	N/A	Total Containers:						

Number of Containers

PA 8015)

EPA 8021)

e (EPA 300.0)

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

[illegible][illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$3 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7-7-21084			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-892-1

SDG Number: 31403236.014.0129

Login Number: 892**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Xenco, Carlsbad**

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-892-1
SDG Number: 31403236.014.0129**Login Number: 892****List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 07/08/21 11:34 AM**

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



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-893-1

SDG Number: 31403236.014.0129

Job Description: Ross Draw 25N Battery

For:

WSP USA Inc.

2777 N. Stemmons Freeway

Suite 1600

Dallas, TX 75207

Attention: Tacoma Morrissey

A handwritten signature in dark ink, appearing to read "Chad A. Bechtold".

Approved for release.
Chad Bechtold
Project Manager
7/9/2021 5:15 PM

Designee for

Jessica Kramer, Project Manager

1211 W. Florida Ave, Midland, TX, 79701

jessica.kramer@eurofinset.com

07/09/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-893-1

Project/Site: Ross Draw 25N Battery

SDG: 31403236.014.0129

Lab Sample ID:	890-893-1	890-893-2
Client Sample ID:	PH06	PH06A
Depth:	1	5
Matrix:	Solid	Solid
Date Collected:	07/06/2021 14:48	07/06/2021 14:53

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	07/08/2021 09:34	07/08/2021 09:34
Analyzed:	07/08/2021 21:07	07/08/2021 21:28

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00201 U	0.00201	<0.00199 U	0.00199
Toluene		<0.00201 U	0.00201	<0.00199 U	0.00199
Ethylbenzene		<0.00201 U	0.00201	<0.00199 U	0.00199
m-Xylene & p-Xylene		<0.00402 U	0.00402	<0.00398 U	0.00398
o-Xylene		<0.00201 U	0.00201	<0.00199 U	0.00199
Xylenes, Total		<0.00402 U	0.00402	<0.00398 U	0.00398
Total BTEX		<0.00402 U	0.00402	<0.00398 U	0.00398

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

Prepared:	07/08/2021 10:12	07/08/2021 10:12
Analyzed:	07/08/2021 19:47	07/08/2021 20:08

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<50.0 U	50.0	<49.8 U	49.8
Diesel Range Organics (Over C10-C28)		<50.0 U	50.0	<49.8 U	49.8
Oil Range Organics (Over C28-C36)		<50.0 U	50.0	<49.8 U	49.8
Total TPH		<50.0 U	50.0	<49.8 U	49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:		
Analyzed:	07/08/2021 17:07	07/08/2021 17:12

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		393	5.03	42.3	5.03



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-893-1

Laboratory Sample Delivery Group: 31403236.014.0129

Client Project/Site: Ross Draw 25N Battery

For:

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

Attn: Tacoma Morrissey

A handwritten signature in dark ink, reading "Chad A. Bechtold".

Authorized for release by:

7/9/2021 5:16:37 PM

Chad Bechtold, Project Manager
(813)690-3563

chad.bechtold@eurofinset.com

Designee for

Jessica Kramer, Project Manager
(432)704-5440

jessica.kramer@eurofinset.com

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

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

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Laboratory Job ID: 890-893-1
SDG: 31403236.014.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Job ID: 890-893-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-893-1

Receipt

The samples were received on 7/7/2021 8:46 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 5.2°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Client Sample ID: PH06

Lab Sample ID: 890-893-1

Date Collected: 07/06/21 14:48

Matrix: Solid

Date Received: 07/07/21 08:46

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/08/21 09:34	07/08/21 21:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/08/21 09:34	07/08/21 21:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/08/21 09:34	07/08/21 21:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/08/21 09:34	07/08/21 21:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/08/21 09:34	07/08/21 21:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/08/21 09:34	07/08/21 21:07	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/08/21 09:34	07/08/21 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 21:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/08/21 09:34	07/08/21 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 19:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	07/08/21 10:12	07/08/21 19:47	1
o-Terphenyl	111		70 - 130	07/08/21 10:12	07/08/21 19:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		5.03		mg/Kg			07/08/21 17:07	1

Client Sample ID: PH06A

Lab Sample ID: 890-893-2

Date Collected: 07/06/21 14:53

Matrix: Solid

Date Received: 07/07/21 08:46

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:34	07/08/21 21:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:34	07/08/21 21:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:34	07/08/21 21:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/08/21 09:34	07/08/21 21:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/08/21 09:34	07/08/21 21:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/08/21 09:34	07/08/21 21:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/08/21 09:34	07/08/21 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/08/21 09:34	07/08/21 21:28	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 21:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Client Sample ID: PH06A

Lab Sample ID: 890-893-2

Date Collected: 07/06/21 14:53

Matrix: Solid

Date Received: 07/07/21 08:46

Sample Depth: - 5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:08	1
Total TPH	<49.8	U	49.8		mg/Kg		07/08/21 10:12	07/08/21 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/08/21 10:12	07/08/21 20:08	1
o-Terphenyl	109		70 - 130	07/08/21 10:12	07/08/21 20:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.3		5.03		mg/Kg			07/08/21 17:12	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-893-1	PH06	93	95
890-893-2	PH06A	111	93
LCS 880-4952/1-A	Lab Control Sample	120	105
LCSD 880-4952/2-A	Lab Control Sample Dup	119	106
MB 880-4952/5-A	Method Blank	88	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-893-1	PH06	95	111
890-893-2	PH06A	93	109
LCS 880-4956/2-A	Lab Control Sample	86	92
LCSD 880-4956/3-A	Lab Control Sample Dup	87	91
MB 880-4956/1-A	Method Blank	82	96
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4952/5-A

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/08/21 09:34	07/08/21 14:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/08/21 09:34	07/08/21 14:59	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/08/21 09:34	07/08/21 14:59	1

Lab Sample ID: LCS 880-4952/1-A

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07674		mg/Kg		77	70 - 130
Toluene	0.100	0.08101		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.09256		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-4952/2-A

Matrix: Solid

Analysis Batch: 4964

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07687		mg/Kg		77	70 - 130	0	35
Toluene	0.100	0.08053		mg/Kg		81	70 - 130	1	35
Ethylbenzene	0.100	0.09233		mg/Kg		92	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

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

Lab Sample ID: MB 880-4956/1-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 4956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/08/21 10:12	07/08/21 12:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/08/21 10:12	07/08/21 12:47	1
o-Terphenyl	96		70 - 130	07/08/21 10:12	07/08/21 12:47	1

Lab Sample ID: LCS 880-4956/2-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	969.1		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-4956/3-A

Matrix: Solid

Analysis Batch: 4958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1089		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4976/1-A

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/08/21 15:05	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-4976/2-A

Matrix: Solid

Analysis Batch: 4984

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-4976/3-A

Matrix: Solid

Analysis Batch: 4984

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	239.5		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

GC VOA

Prep Batch: 4952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-893-1	PH06	Total/NA	Solid	5035	
890-893-2	PH06A	Total/NA	Solid	5035	
MB 880-4952/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-893-1	PH06	Total/NA	Solid	8021B	4952
890-893-2	PH06A	Total/NA	Solid	8021B	4952
MB 880-4952/5-A	Method Blank	Total/NA	Solid	8021B	4952
LCS 880-4952/1-A	Lab Control Sample	Total/NA	Solid	8021B	4952
LCSD 880-4952/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4952

GC Semi VOA

Prep Batch: 4956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-893-1	PH06	Total/NA	Solid	8015NM Prep	
890-893-2	PH06A	Total/NA	Solid	8015NM Prep	
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-893-1	PH06	Total/NA	Solid	8015B NM	4956
890-893-2	PH06A	Total/NA	Solid	8015B NM	4956
MB 880-4956/1-A	Method Blank	Total/NA	Solid	8015B NM	4956
LCS 880-4956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4956
LCSD 880-4956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4956

HPLC/IC

Leach Batch: 4976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-893-1	PH06	Soluble	Solid	DI Leach	
890-893-2	PH06A	Soluble	Solid	DI Leach	
MB 880-4976/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-893-1	PH06	Soluble	Solid	300.0	4976
890-893-2	PH06A	Soluble	Solid	300.0	4976
MB 880-4976/1-A	Method Blank	Soluble	Solid	300.0	4976
LCS 880-4976/2-A	Lab Control Sample	Soluble	Solid	300.0	4976
LCSD 880-4976/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4976

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Client Sample ID: PH06

Lab Sample ID: 890-893-1

Date Collected: 07/06/21 14:48

Matrix: Solid

Date Received: 07/07/21 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 21:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 19:47	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 17:07	CH	XEN MID

Client Sample ID: PH06A

Lab Sample ID: 890-893-2

Date Collected: 07/06/21 14:53

Matrix: Solid

Date Received: 07/07/21 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4952	07/08/21 09:34	KL	XEN MID
Total/NA	Analysis	8021B		1	4964	07/08/21 21:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			4956	07/08/21 10:12	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4958	07/08/21 20:08	AM	XEN MID
Soluble	Leach	DI Leach			4976	07/08/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	4984	07/08/21 17:12	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

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

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: Ross Draw 25N Battery

Job ID: 890-893-1
SDG: 31403236.014.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-893-1	PH06	Solid	07/06/21 14:48	07/07/21 08:46	- 1
890-893-2	PH06A	Solid	07/06/21 14:53	07/07/21 08:46	- 5

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Taloma M. C. S. S. S.	Bill to: (if different)	Kyle Little
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	travis.casey@wsp.com, kate.jennings@wsp.com, dan.moir@wsp.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project: NM	
Reporting Level: I ☐ II ☐ III ☐ IV ☐	ST/UST ☐ RP ☐ Vel IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Ross Street 25th Bldg	Turn Around	
Project Number:	31403236.614.0129	Routine	
P.O. Number:		Rush: 48 hr	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No
Temperature (°C):	5.4/5.2	Thermometer ID
Received Intact:	☒ Yes ☐ No	Correction Factor:
Cooler Custody Seals:	Yes ☐ No ☐ N/A	Total Containers:
Sample Custody Seals:	Yes ☐ No ☐ N/A	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
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PH06	S	7.6.21	1448	1'	1	✓	✓	✓		
PH06A	S	7.6.21	1453	5'	1	✓	✓	✓		



890-693 Chain of Custody

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

Sample Comments

Composite

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		7-7-21 08:41			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-893-1

SDG Number: 31403236.014.0129

Login Number: 893**List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Xenco, Carlsbad**

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-893-1
SDG Number: 31403236.014.0129**Login Number: 893****List Number: 2****Creator: Copeland, Tatiana****List Source: Eurofins Xenco, Midland****List Creation: 07/08/21 11:34 AM**

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 38953

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 38953
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests to complete final remediation of soil sample locations "FS01" and "SW03" during any future major deconstruction/alteration and/or abandonment, whichever occurs first. At this time, OCD approves the request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	10/21/2021