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	nAPP2123361366
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.raley@dvn.com	Incident # *(assigned by OCD)* nAPP2123361366
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0210342 Longitude -103.9788208
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL 22 #003H	Site Type: Oil Production Facility
Date Release Discovered: Aug 21th, 2021	API# *(if applicable)* 30-015-42285

Unit Letter	Section	Township	Range	County
M	22	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) 10	Volume Recovered (bbls) 8
☒ Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 19
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Stainless steel line running to murphy gauge on wellhead failed, allowing for approx. 35 bbls (25PW/10 Oil) to be released to the pad surface.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21\left(\frac{ft^3}{bbl\ equivalent}\right)} * estimated\ soil\ porosity(\%) + \text{recovered fluids (bbl)}$$

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123361366
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email sent from Jim Raley on 8/21/2021, to Robert Hamlet and Emily Hernandez	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: ____James Raley_____ Title: Environmental Specialist _____

Signature: _____ _____ Date: ___08/30/2021_____

email: ___jim.raley@dvn.com_____ Telephone: ___575-689-7597_____

OCD Only

Received by: Ramona Marcus Date: 8/31/2021

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

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

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 45151
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	8/31/2021

Incident ID	nAPP2123361366
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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

Incident ID	nAPP2123361366
District RP	
Facility ID	
Application ID	

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

Printed Name: Jim Raley Title: Environmental Professional

Signature: Jim Raley Date: 3/14/2022

email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123361366
District RP	
Facility ID	
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: Jim Raley Title: Environmental Professional

Signature: Jim Raley Date: 3/14/2022

email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 03/16/2022

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

March 10, 2022

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

RE: Remediation Work Plan
East Pecos Federal 22 #003H
Incident Number nAPP2123361366
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of WPX Energy Permian, LLC (WPX), presents the following Remediation Work Plan detailing remediation activities completed to date and a proposed work plan to address residual impacted soil at the East Pecos Federal 22 #003H (Site) in Unit M and D, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of remediation activities was to address impacts to soil resulting from the release of crude oil and produced water at the Site, by safely excavating impacted soil to the extent possible based on Site conditions. The proposed work plan is designed to address remaining impacts to soil by installing a 20-mil impermeable liner in the subsurface and additional excavation to the greatest extent safely permissible around energized subsurface electric utilities and within an existing excavation.

RELEASE BACKGROUND

On August 21, 2021, a stainless-steel line running to a murphy gauge on the wellhead failed. Approximately 10 barrels (bbls) of crude oil and 25 bbls of produced water were released onto the surface of the well pad. Hydrovac trucks were immediately dispatched to the Site and recovered approximately 8 bbls of crude oil and 19 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form (Form C-141) on August 30, 2021. The release was subsequently assigned Incident Number nAPP2123361366.

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 51 and 100 feet below ground surface (bgs) based on the nearby groundwater well data. Based on the desktop review, the closest permitted groundwater well with depth to groundwater data is the United States

Geological Survey (USGS) well number 320126103562801, located approximately 0.29 miles northeast from the Site. The water well has a depth to groundwater of approximately 67 feet bgs. However, field verification is sometimes necessary to measure the distance of a water well from the release extent and to confirm the water well location exists. During the field assessment to verify the location of USGS water well 320126103562801, WSP verified that the well did not exist.

Two other wells in the immediate area exhibit similar depth to groundwater measurements, indicating depth to groundwater is regionally consistent. The next closest well with depth to groundwater data is USGS well 320112103574501, located approximately 0.90 miles east of the Site, has a depth of groundwater measurement of 57.38 feet bgs. USGS well 320135103573301, located 1 mile northeast of the Site, has a depth to groundwater of approximately 80.88 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1. While depth to groundwater appears to be between 51 and 100 feet bgs for the Site, the well location (greater than 0.5 mile from the Site) does not meet the NMOCD interpretated guidance of estimation of depth to water.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream approximately 1,270 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and less than 300 feet from an occupied residence. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

There do not appear to be any sensitive receptors related to the Site; however, the location of the wells is not within 0.5-mile of the Site. Therefore, the follow NMOCD Table 1 Closure Criteria apply:

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

DELINEATION SOIL SAMPLING ACTIVITIES AND RESULTS

On September 9, 2021, WSP personnel visited the Site to oversee delineation activities to assess the areas of impacted soil. WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively, to define the vertical extent of impacted soil within the subject release extent. Five

potholes (PH01 through PH05) were advanced within the release area to depths ranging from 1-foot to 8 feet bgs. At minimum, two soil samples were collected from each pothole for laboratory analysis: the highest observed field screened concentration and the pothole terminus. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The release extent and pothole locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for the delineation soil samples collected from potholes PH02, PH03 and PH05 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples PH01 at 1 foot bgs and PH04 at 4 feet bgs indicated that chloride concentrations exceeded the Closure Criteria and thus remediation was warranted. Vertical delineation to the Closure Criteria within the excavation was achieved in PH01 at 4 feet bgs and PH04 at 8 feet bgs.

EASTERN EXCAVATION SOIL SAMPLING ACTIVITIES AND RESULTS

WSP personnel returned to the Site to oversee excavation activities from January 11 through 26, 2022. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, WSP collected 5-point composite soil samples at a frequency of at least every 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. The excavation soil samples were collected, handled and analyzed as previously described. Composite floor samples FS01 through FS09 were collected from the floor of the excavation from depths ranging from 2.5 feet to 3 feet bgs. Composite sidewall samples SW01 and SW02 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 3 feet bgs.

Final laboratory analytical results for the excavation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all samples except FS07, which exceeded Closure Criteria for chloride concentrations.

WESTERN EXCAVATION SOIL SAMPLING ACTIVITIES AND RESULTS

WSP personnel simultaneously oversaw the western excavation from January 11 through 26, 2022. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride as previously described. Following removal of impacted soil, WSP collected composite floor samples FS11, FS13 and FS15 from a depth of 4.5 feet bgs to characterize residual chloride impacts inside the excavation floor. Composite sidewall samples SW03 through SW09 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4.5 feet bgs. The excavation soil samples were handled and analyzed as previously described.

The excavation soil sample locations and excavation extent were mapped utilizing a GPS unit and are depicted on Figure 3. Photographic documentation is provided in Attachment 3.

Laboratory analytical data for SW03 through SW05 warranted additional soil removal due to chloride exceedances above the Closure Criteria. Final laboratory analytical results for the excavation sidewall samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all samples except SW07, which exceeded Closure Criteria for chloride concentrations.

The final excavation extents measured approximately 2,103 square feet and 1,332 square feet for the eastern and the western excavation, respectively. A total of approximately 740 cubic yards of impacted soil were excavated, transported and disposed of at the R360 Facility under WPX approved manifests.

LABORATORY ANALYTICAL RESULTS

The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

PROPOSED REMEDIATION WORK PLAN

Additional remediation is required in both the eastern and western excavation, specifically the area associated with SW07 and FS07 until Closure Criteria standards are achieved.

Currently, delineation and excavation soil sampling provided full lateral and vertical delineation of the remaining impacted soil. Remaining impacts in the western excavation floor are characterized by chloride concentrations of 949 mg/kg to 1,370 mg/kg based on FS11, FS13 and FS15. Vertical delineation to the Closure Criteria was achieved in PH04 at 8 feet bgs. WSP proposes additional excavation of SW07 within the top four feet until horizontal delineation is achieved, followed by the installation of a 20-mil impermeable liner at approximately 4.5 feet bgs inside the western excavation to act as a physical barrier and mitigate further chloride impacts into the subsurface. Once complete, WPX will backfill the area with non-waste containing soil. The proposed liner extent is shown on Figure 4.

Additionally, impacted soil within the vicinity of FS07 will be removed utilizing heavy equipment until Closure Criteria standards are achieved and confirmed with laboratory analytical results.

Following approval of this work plan by NMOCD, WPX will coordinate additional excavation efforts associated FS07 and SW07, liner installation and backfilling activities. WSP and WPX do not believe the liner and the residual impacted soil below will result in imminent risk to human health, the environment, or groundwater.

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

Sincerely,

WSP USA Inc.

Anna Byers
Consultant, Geologist

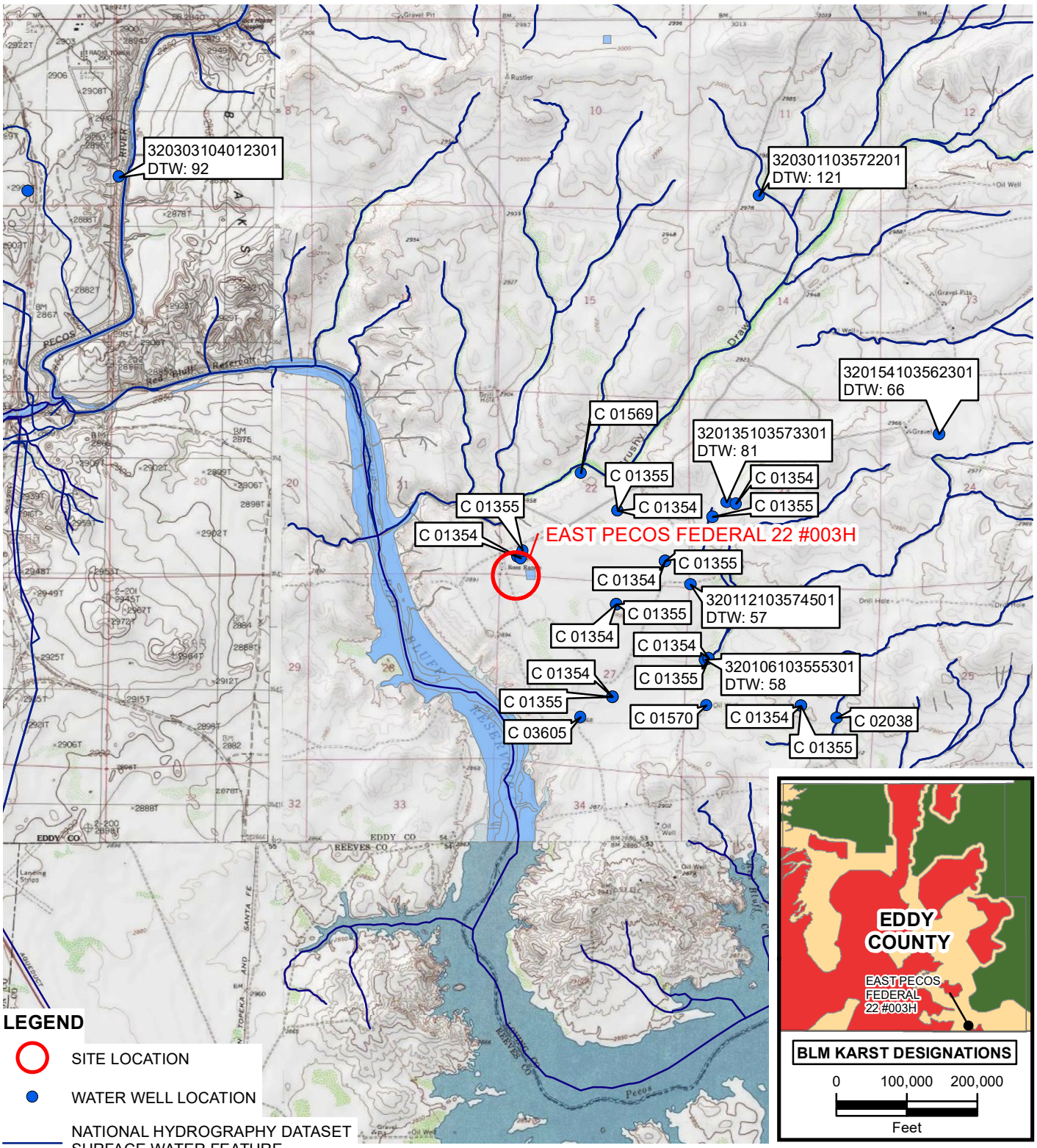
Joseph S. Hernandez
Consultant, Geologist

cc: Jim Raley, Devon Energy Corporation

Attachments:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Proposed Liner and Excavation Areas
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic / Soil Sampling Log
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports
Attachment 5	Sampling Notifications

FIGURES



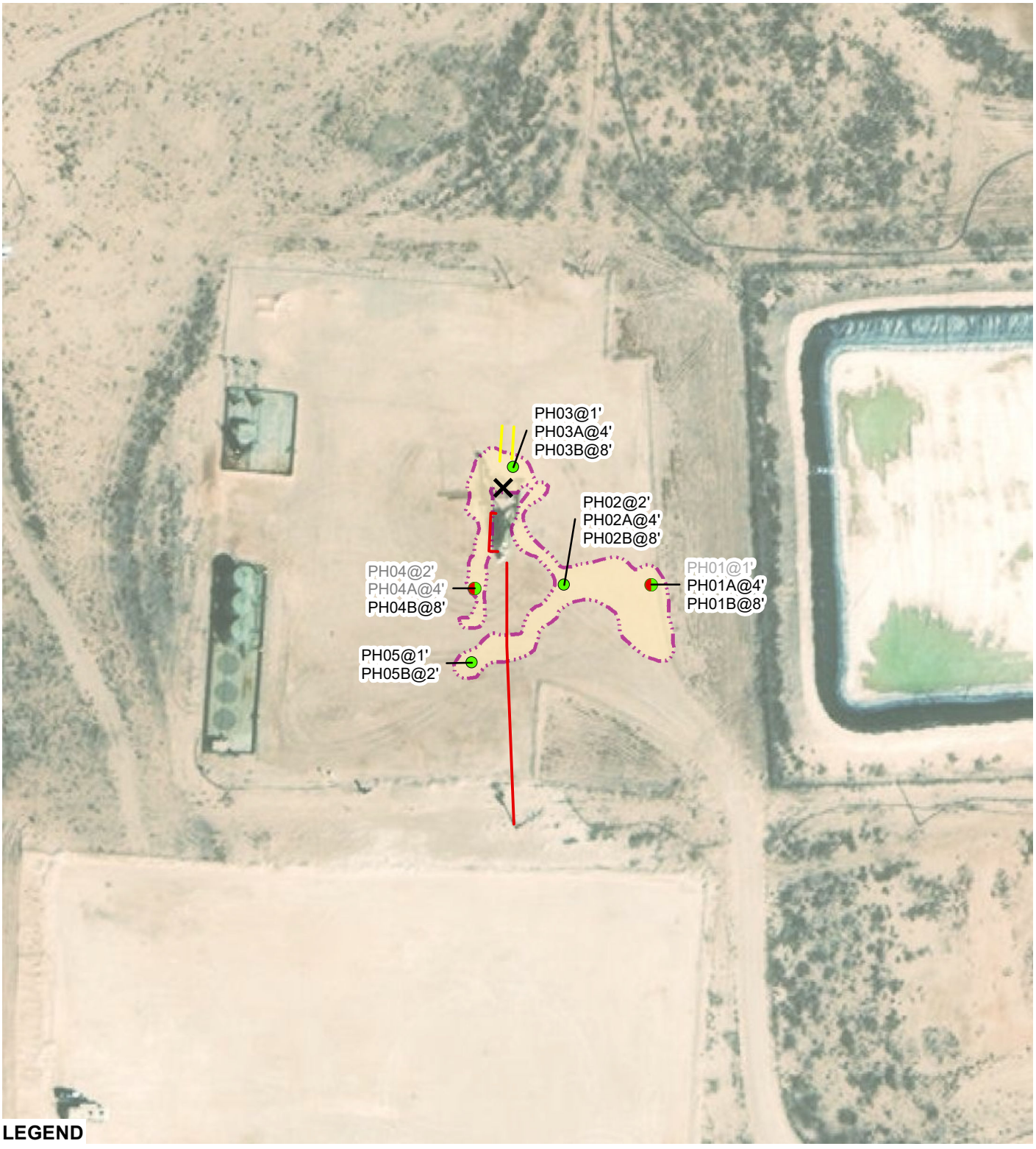
LEGEND

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

DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT
TD: TOTAL DEPTH IN FEET
NOTE: INCIDENT NUMBER NAPP2200746777

FIGURE 1
SITE LOCATION MAP
EAST PECOS FEDERAL 22 #003H
UNIT M SEC 22 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC

P:\WPX-Devon\GIS\31403360.003_EAST PECOS FEDERAL 22 #003H\MXD\31403360.003_FIG01_SL_RECEPTOR_2022.mxd



LEGEND

DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA

DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

ELECTRIC LINE

GAS LINE

RELEASE EXTENT

NOTE: INCIDENT NUMBER nAPP2123361366
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

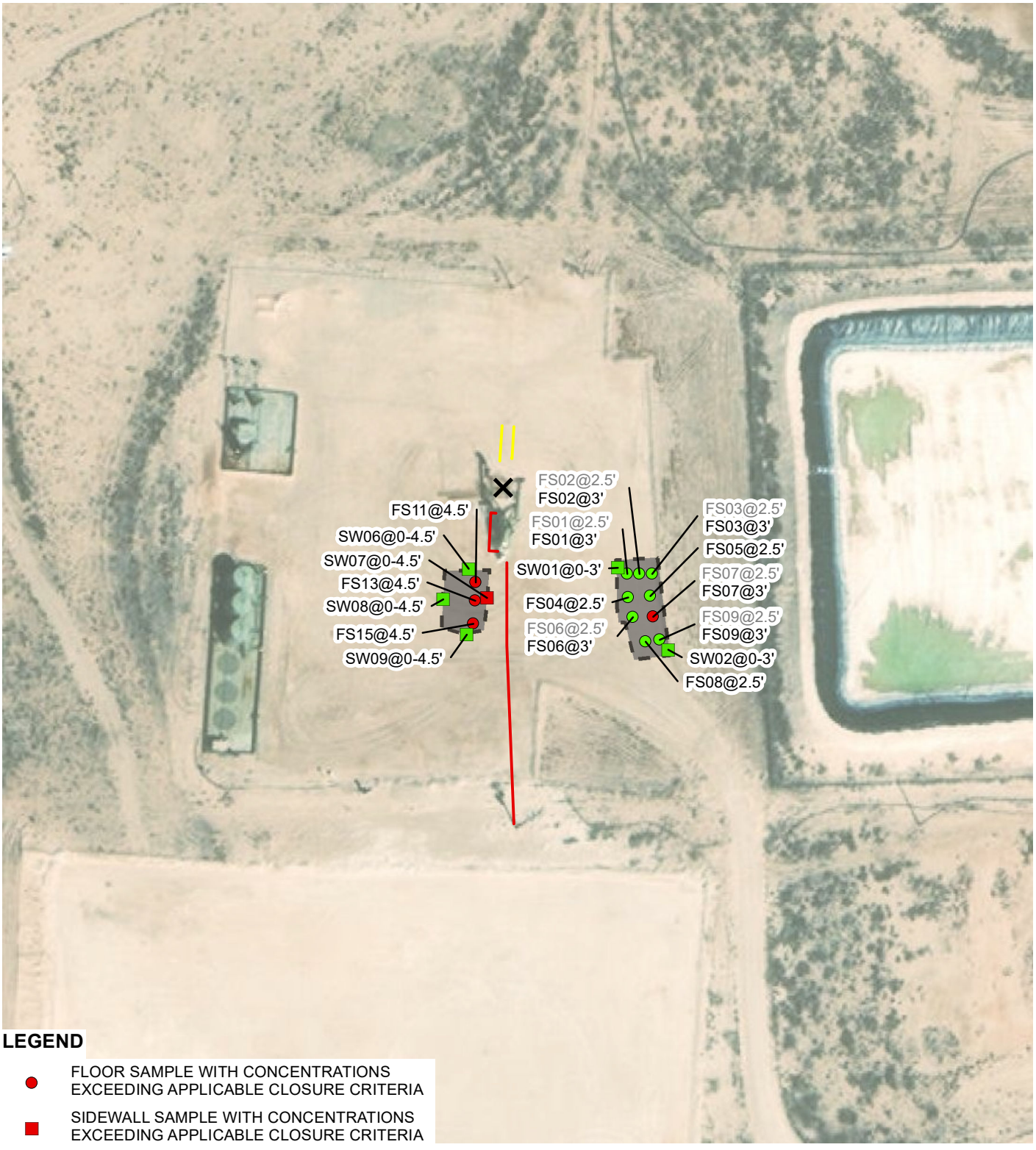
IMAGE COURTESY OF ESRI

0 100 200
Feet

N

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
EAST PECOS FEDERAL 22 #003H
UNIT M & D SEC 22 & 27 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC

P:\WPX-Devon\GIS\31403360.003_EAST PECOS FEDERAL 22 #003H\MXD\31403360.003_FIG02_DELINEATION_2022_1.mxd



LEGEND

- FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER nAPP2123361366
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 100 200
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
EAST PECOS FEDERAL 22 #003H
UNIT M & D SEC 22 & 27 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC

wsp

P:\WPX-Devon\GIS\31403360.003_EAST PECOS FEDERAL 22 #003H\MXD\31403360.003_FIG03_EXCAVATION_2022.mxd

LEGEND

- RELEASE LOCATION
- ELECTRIC LINE
- GAS LINE
- EXCAVATION EXTENT
- PROPOSED EXCAVATION EXTENT (620 SQUARE FEET)
- PROPOSED LINER EXTENT (1,766 SQUARE FEET)

NOTE: INCIDENT NUMBER nAPP2123361366
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 4
PROPOSED LINER AND EXCAVATION EXTENTS
EAST PECOS FEDERAL 22 #003H
UNIT M & D SEC 22 & 27 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC

P:\WPX-Devon\GIS\31403360.003_EAST PECOS FEDERAL 22 #003H\MXD\31403360.003_FIG04_PROP_LINER_EXCAVATION_2022.mxd

TABLES

Table 1

Soil Analytical Results
EAST PECOS FEDERAL 22 #003H
Incident Number nAPP2123361366
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**
Delineation Soil Samples										
PH01	09/09/2021	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**996**
PH01A	09/09/2021	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	351
PH01B	09/09/2021	8	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	547
PH02	09/09/2021	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	291
PH02A	09/09/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	56.2
PH02B	09/09/2021	8	<0.00198	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	319
PH03	09/09/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	38.1
PH03A	09/09/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.9
PH03B	09/09/2021	8	<0.00199	0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	40.6
PH04	09/09/2021	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	107
PH04A	09/09/2021	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**803**
PH04B	09/09/2021	8	<0.00000201	<0.00000201	<50.0	<50.0	<50.0	<50.0	<50.0	491
PH05	09/09/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	312
PH05B	09/09/2021	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	275
Eastern Excavation Floor Samples										
FS01	01/13/2022	2.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**703**
FS01	01/26/2022	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	418

Table 1

Soil Analytical Results
EAST PECOS FEDERAL 22 #003H
Incident Number nAPP2123361366
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**
FS02	01/13/2022	2.5	<0.00200	<0.00400	<49.9	<49.10	<49.11	<49.12	<49.13	**911**
FS02	01/26/2022	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	347
FS03	01/13/2022	2.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	**899**
FS03	01/26/2022	3	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	318
FS04	01/13/2022	2.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	563
FS05	01/13/2022	2.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	577
FS06	01/13/2022	2.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	**1,070**
FS06	01/21/2022	3	<0.00200	<0.00399	62.1	<50.0	<50.0	62.1	62.1	589
FS07	01/13/2022	2.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	**691**
FS07	01/21/2022	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	**1,030**
FS08	01/13/2022	2.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	445
FS09	01/13/2022	2.5	<0.00199	<0.00414	<50.0	<50.0	<50.0	<50.0	<50.0	**782**
FS09	01/26/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	163
Eastern Excavation Sidewall Samples										
SW01	01/26/2022	0-3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	470
SW02	01/26/2022	0-3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	477

Table 1

Soil Analytical Results
EAST PECOS FEDERAL 22 #003H
Incident Number nAPP2123361366
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**
Western Excavation Floor Samples										
FS11	01/18/2022	4.5	NA	NA	NA	NA	NA	NA	NA	**949**
FS13	01/18/2022	4.5	NA	NA	NA	NA	NA	NA	NA	**1,370**
FS15	01/18/2022	4.5	NA	NA	NA	NA	NA	NA	NA	**1,070**
Western Excavation Sidewall Samples										
SW03	01/18/2022	0 - 4.5	NA	NA	NA	NA	NA	NA	NA	**1,390**
SW04	01/18/2022	0 - 4.5	NA	NA	NA	NA	NA	NA	NA	**1,030**
SW05	01/18/2022	0 - 4.5	NA	NA	NA	NA	NA	NA	NA	**1,850**
SW06	01/26/2022	0 - 4.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	431
SW07	01/26/2022	0 - 4.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	**2,030**
SW08	01/26/2022	0 - 4.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	198
SW09	01/26/2022	0 - 4.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	366

Notes:

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

ATTACHMENT 1: REFERENCED WELL RECORDS

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category: Groundwater | Geographic Area: United States | GO

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320126103562801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320126103562801 26S.29E.22.340

Eddy County, New Mexico
Latitude 32°01'22", Longitude 103°58'26" NAD27
Land-surface elevation 2,888 feet above NGVD29
The depth of the well is 80 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1958-08-18		D	62610		2819.26	NGVD29	1	Z			A
1958-08-18		D	62611		2820.78	NAVD88	1	Z			A
1958-08-18		D	72019	68.74			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Last Modified: 2022-03-10 19:36:12 EST
0.3 0.27 nadww02

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category: Groundwater | Geographic Area: United States | GO

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- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320112103574501

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320112103574501 26S.29E.22.333242

Eddy County, New Mexico
Latitude 32°01'12", Longitude 103°57'45" NAD27
Land-surface elevation 2,892.0 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1993-01-05	21:45 UTC	m	62610		2834.62	NGVD29	1	S			A
1993-01-05	21:45 UTC	m	62611		2836.14	NAVD88	1	S			A
1993-01-05	21:45 UTC	m	72019	57.38			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-03-10 19:37:59 EST
0.28 0.24 nadww02

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- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320135103573301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320135103573301 26S.29E.23.31220

Eddy County, New Mexico
Latitude 32°01'35", Longitude 103°57'33" NAD27
Land-surface elevation 2,913 feet above NGVD29
The depth of the well is 170.00 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Forty-Niner Member of Rustler Formation (310FRNR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1987-10-14		D	62610		2832.12	NGVD29	1	S			A
1987-10-14		D	62611		2833.65	NAVD88	1	S			A
1987-10-14		D	72019	80.88			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Last Modified: 2022-03-10 19:39:41 EST
0.28 0.25 nadww02

ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOG

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **PH01**	Date: **09-09-2021**
	Site Name: **East Pecos Federal 22 #003H**	
	RP or Incident Number: **NAPP2123361366**	
	WSP Job Number: **31403360.003**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: **AB**	Method: **Backhoe**
Lat/Long: **32.020855, -103.978489** Field Screening: **TPH, Chlorides**	Hole Diameter: **N/A**	Total Depth: **8'**

Comments: **All chloride tests do not include the 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
						0	SP	0-4', SAND, dry, brown-dark brown, poorly graded, very fine-fine grain, no staining, no odor.
D	956	0	N	PH01	1	1		
						2		
						3		
D	2,008	0	N	PH01	4	4	CCHE	4-8', CALICHE, dry, tan-light brown, well graded, moderately consolidated, fine-medium grain, abundant coarse-large subround-subangular caliche gravel, no staining, no odor.
						5		
						6		
						7		
D	420	0	N	PH01	8	8	TD	Total depth at 8' bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **PH02**	Date: **09-09-2021**
Site Name: **East Pecos Federal 22 #003H**	
RP or Incident Number: **NAPP2123361366**	
WSP Job Number: **31403360.003**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AB**	Method: **Backhoe**		
Lat/Long: **32.020870, -103.978652**	Field Screening: **TPH, Chlorides**	Hole Diameter: **N/A**	Total Depth: **8'**

Comments: **All chloride tests do not include the 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
						0	CCHE	0-7', CALICHE, dry, tan-light brown, well graded, moderately consolidated, fine-medium grain, abundant coarse-large subround-subangular caliche gravel, no staining, no odor.
						1		
D	792	0	N	PH02	2	2		
						3		
D	688	0	N	PH02	4	4		
						5		
						6		7-8', SAND, dry, brown, well graded, fine- medium grain, no staining, no odor.
						7	SW	
D	264	0	N	PH02	8	8	TD	Total depth at 8' bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **PH03**	Date: **09-09-2021**
	Site Name: **East Pecos Federal 22 #003H**	
	RP or Incident Number: **NAPP2123361366**	
	WSP Job Number: **31403360.003**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: **AB**	Method: **Backhoe**
Lat/Long: **32.021083, -103.978803** Field Screening: **TPH, Chlorides**	Hole Diameter: **N/A**	Total Depth: **8'**

Comments: **All chloride tests do not include the 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
						0	CCHE	0-7', CALICHE, dry, tan-light brown, well graded, moderately consolidated, fine-medium grain, abundant coarse-large subround-subangular caliche gravel, no staining, no odor.
D	<108	0	N	PH03	1	1		
						2		
						3		
D	<108	0	N	PH03	4	4		
						5		
						6		7-8', SAND, dry, brown, well graded, fine- medium grain, no staining, no odor.
						7	SW	
D	<108	0	N	PH03	8	8	TD	Total depth at 8' bgs

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: **PH04**	Date: **09-09-2021**
	Site Name: **East Pecos Federal 22 #003H**	
	RP or Incident Number: **NAPP2123361366**	
	WSP Job Number: **31403360.003**	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: **AB**	Method: **Backhoe**
Lat/Long: **32.0208473, -103.9788930** Field Screening: **TPH,Chlorides**	Hole Diameter: **N/A**	Total Depth: **8'**

Comments: **All chloride tests do not include the 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
						0	CCHE	0-8', CALICHE, dry, tan-light brown, well graded, moderately consolidated, fine-medium grain, abundant coarse-large subround-subangular caliche gravel, no staining, no odor.
						1		
D	1,932	0	N	PH04	2	2		
						3		
D	764	0	N	PH04	4	4		
						5		
						6		
						7		
D	496	0	N	PH04	8	8	TD	Total depth at 8' bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **PH05**	Date: **09-09-2021**
Site Name: **East Pecos Federal 22 #003H**	
RP or Incident Number: **NAPP2123361366**	
WSP Job Number: **31403360.003**	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **AB**	Method: **Backhoe**		
Lat/Long: **32.0207021, -103.9788995**	Field Screening: **TPH, Chlorides**	Hole Diameter: **N/A**	Total Depth: **8'**

Comments: **All chloride tests do not include the 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
						0	SP-SM	0-1' SAND, dry, brown-dark brown, poorly graded with silt, fine-medium grain, no staining, no odor.
D	1,464	0	N	PH05	1	1	CCHE	1-2', CALICHE, dry, tan-light brown, well graded, moderately consolidated, fine-medium grain, abundant coarse-large subround-subangular caliche gravel, no staining, no odor.
D	448	0	N	PH05	2	2	TD	Total depth at 2' bgs.

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
WPX ENERGY PERMIAN, LLC	EAST PECOS FEDERAL 22 #003H Eddy County, NM	NAPP2123361366

Photo No.	Date
1	August 23, 2021

Site initial photo facing Northwest.

Photo No.	Date
2	August 23, 2021

Site initial photo facing southwest.

PHOTOGRAPHIC LOG		
WPX ENERGY PERMIAN, LLC	EAST PECOS FEDERAL 22 #003H Eddy County, NM	NAPP2123361366

Photo No.	Date
3	September 13, 2021

Photo of delineation with backhoe facing northwest.

Photo No.	Date
4	January 13, 2022

Initial start of eastern excavation facing south.

PHOTOGRAPHIC LOG		
WPX ENERGY PERMIAN, LLC	EAST PECOS FEDERAL 22 #003H Eddy County, NM	NAPP2123361366

Photo No.	Date
5	January 13, 2022

Eastern excavation extent at 2.5’ bgs facing north.

Photo No.	Date
6	January 18, 2022

Completed eastern excavation facing south.

PHOTOGRAPHIC LOG		
WPX ENERGY PERMIAN, LLC	EAST PECOS FEDERAL 22 #003H Eddy County, NM	NAPP2123361366

Photo No.	Date
7	January 18, 2022

Initial start of western excavation facing south.

Photo No.	Date
8	January 26, 2022

Completed western excavation facing north.

PHOTOGRAPHIC LOG		
WPX ENERGY PERMIAN, LLC	EAST PECOS FEDERAL 22 #003H Eddy County, NM	NAPP2123361366

Photo No.	Date
9	January 26, 2022

Completed western excavation facing northwest.

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1249-1
Laboratory Sample Delivery Group: Eddy County NM
Client Project/Site: East Pecos Fed 22-3h

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

Attn: Joseph Hernandez

Authorized for release by:
9/14/2021 8:40:15 PM

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

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Laboratory Job ID: 890-1249-1
SDG: Eddy County NM

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

Job ID: 890-1249-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1249-1

Receipt
The samples were received on 9/13/2021 12:36 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 4.6°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: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

Client Sample ID: PH01

Lab Sample ID: 890-1249-1
Matrix: Solid
Date Collected: 09/09/21 10:25
Date Received: 09/13/21 12:36
Sample Depth: 8

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		09/14/21 11:00	09/14/21 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/14/21 11:00*	*09/14/21 13:28*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/14/21 11:00*	*09/14/21 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	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 14:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 14:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/14/21 08:40*	*09/14/21 14:30*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/14/21 08:40*	*09/14/21 14:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**547**		5.04		mg/Kg			09/14/21 16:45	1

Client Sample ID: PH02

Lab Sample ID: 890-1249-2
Matrix: Solid
Date Collected: 09/09/21 13:55
Date Received: 09/13/21 12:36
Sample Depth: 8

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		09/14/21 11:00	09/14/21 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/14/21 11:00*	*09/14/21 13:49*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/14/21 11:00*	*09/14/21 13:49*	*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		09/14/21 08:40	09/14/21 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 15:03	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

Client Sample ID: PH02 Lab Sample ID: 890-1249-2

Date Collected: 09/09/21 13:55 **Matrix: Solid**
Date Received: 09/13/21 12:36
Sample Depth: 8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*09/14/21 08:40*	*09/14/21 15:03*	*1*
o-Terphenyl	*122*		*70 - 130*	*09/14/21 08:40*	*09/14/21 15:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**319**		5.01		mg/Kg			09/14/21 17:02	1

Client Sample ID: PH03 Lab Sample ID: 890-1249-3

Date Collected: 09/09/21 16:10 **Matrix: Solid**
Date Received: 09/13/21 12:36
Sample Depth: 8

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/14/21 11:00	09/14/21 14:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/14/21 11:00	09/14/21 14:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/14/21 11:00	09/14/21 14:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/14/21 11:00	09/14/21 14:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/14/21 11:00	09/14/21 14:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/14/21 11:00	09/14/21 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/14/21 11:00*	*09/14/21 14:10*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/14/21 11:00*	*09/14/21 14:10*	*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		09/14/21 08:40	09/14/21 15:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 15:23	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*09/14/21 08:40*	*09/14/21 15:23*	*1*
o-Terphenyl	*128*		*70 - 130*	*09/14/21 08:40*	*09/14/21 15:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.6**		4.95		mg/Kg			09/14/21 17:07	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

Client Sample ID: PH04
Date Collected: 09/09/21 11:20
Date Received: 09/13/21 12:36
Sample Depth: 8

Lab Sample ID: 890-1249-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00000201	U	0.00000201		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
Toluene	<0.00000201	U	0.00000201		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
Ethylbenzene	<0.00000201	U	0.00000201		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
m-Xylene & p-Xylene	<0.00000402	U	0.00000402		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
o-Xylene	<0.00000201	U	0.00000201		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
Xylenes, Total	<0.00000402	U	0.00000402		mg/Kg		09/14/21 11:00	09/14/21 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/14/21 11:00*	*09/14/21 14:30*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/14/21 11:00*	*09/14/21 14:30*	*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		09/14/21 08:40	09/14/21 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 15:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/14/21 08:40*	*09/14/21 15:44*	*1*
o-Terphenyl	*124*		*70 - 130*	*09/14/21 08:40*	*09/14/21 15:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**491**		4.96		mg/Kg			09/14/21 17:13	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-6047-A-1-A MS	Matrix Spike	119	89										
880-6047-A-1-B MSD	Matrix Spike Duplicate	177 S1+	80										
890-1249-1	PH01	80	86										
890-1249-2	PH02	91	87										
890-1249-3	PH03	102	104										
890-1249-4	PH04	93	102										
LCS 880-7836/1-A	Lab Control Sample	122	84										
LCSD 880-7836/2-A	Lab Control Sample Dup	113	90										
MB 880-7801/5-A	Method Blank	126	98										
MB 880-7836/5-A	Method Blank	125	100										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-6052-A-1-B MS	Matrix Spike	105	99										
880-6052-A-1-C MSD	Matrix Spike Duplicate	105	100										
890-1249-1	PH01	121	126										
890-1249-2	PH02	120	122										
890-1249-3	PH03	122	128										
890-1249-4	PH04	121	124										
LCS 880-7855/2-A	Lab Control Sample	103	99										
LCSD 880-7855/3-A	Lab Control Sample Dup	103	100										
MB 880-7855/1-A	Method Blank	110	119										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7801/5-A
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/21 10:16	09/13/21 16:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/13/21 10:16*	*09/13/21 16:45*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/13/21 10:16*	*09/13/21 16:45*	*1*

Lab Sample ID: MB 880-7836/5-A
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/21 16:00	09/14/21 03:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*09/13/21 16:00*	*09/14/21 03:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/13/21 16:00*	*09/14/21 03:41*	*1*

Lab Sample ID: LCS 880-7836/1-A
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7836

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08762		mg/Kg		88	70 - 130		
Toluene			0.100	0.1026		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1087		mg/Kg		109	70 - 130		
m-Xylene & p-Xylene			0.200	0.1992		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09707		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-7836/2-A
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7836

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08024		mg/Kg		80	70 - 130	9	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-7836/2-A
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7836

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.09943		mg/Kg		99	70 - 130	3	35
Ethylbenzene			0.100	0.1019		mg/Kg		102	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1990		mg/Kg		100	70 - 130	0	35
o-Xylene			0.100	0.09178		mg/Kg		92	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-6047-A-1-A MS
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7836

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F1	0.0990	0.02858	F1	mg/Kg		29	70 - 130
Toluene	<0.00200	U F1 F2	0.0990	0.04647	F1	mg/Kg		47	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0990	0.04278	F1	mg/Kg		43	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.198	0.08167	F1	mg/Kg		41	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0990	0.04048	F1	mg/Kg		41	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-6047-A-1-B MSD
Matrix: Solid
Analysis Batch: 7815

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7836

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0998	0.04031	F1	mg/Kg		40	70 - 130	34	35
Toluene	<0.00200	U F1 F2	0.0998	0.09007	F2	mg/Kg		90	70 - 130	64	35
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.09953	F2	mg/Kg		100	70 - 130	80	35
m-Xylene & p-Xylene	<0.00400	U F1 F2	0.200	0.2007	F2	mg/Kg		101	70 - 130	84	35
o-Xylene	<0.00200	U F1 F2	0.0998	0.08753	F2	mg/Kg		88	70 - 130	74	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

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

Lab Sample ID: MB 880-7855/1-A
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7855

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		09/14/21 08:40	09/14/21 10:34	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-7855/1-A
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 10:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/14/21 08:40*	*09/14/21 10:34*	*1*
o-Terphenyl	*119*		*70 - 130*	*09/14/21 08:40*	*09/14/21 10:34*	*1*

Lab Sample ID: LCS 880-7855/2-A
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7855

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	876.5		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	856.9		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-7855/3-A
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7855

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	810.7		mg/Kg		81	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	760.2		mg/Kg		76	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-6052-A-1-B MS
Matrix: Solid
Analysis Batch: 7858

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	927.2		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	878.8		mg/Kg		84	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

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

Lab Sample ID: 880-6052-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7858 — **Prep Batch: 7855**

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	<49.8	U	999	914.4		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	886.8		mg/Kg		84	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7862/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/14/21 15:54	1

Lab Sample ID: LCS 880-7862/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-7862/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7887

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-6052-A-1-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	176		250	418.8		mg/Kg		97	90 - 110

Lab Sample ID: 880-6052-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 7887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	176		250	419.0		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

GC VOA

Prep Batch: 7801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7801/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	8021B	7836
890-1249-2	PH02	Total/NA	Solid	8021B	7836
890-1249-3	PH03	Total/NA	Solid	8021B	7836
890-1249-4	PH04	Total/NA	Solid	8021B	7836
MB 880-7801/5-A	Method Blank	Total/NA	Solid	8021B	7801
MB 880-7836/5-A	Method Blank	Total/NA	Solid	8021B	7836
LCS 880-7836/1-A	Lab Control Sample	Total/NA	Solid	8021B	7836
LCSD 880-7836/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7836
880-6047-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7836
880-6047-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7836

Prep Batch: 7836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	5035	
890-1249-2	PH02	Total/NA	Solid	5035	
890-1249-3	PH03	Total/NA	Solid	5035	
890-1249-4	PH04	Total/NA	Solid	5035	
MB 880-7836/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7836/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7836/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6047-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-6047-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 7855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	8015NM Prep	
890-1249-2	PH02	Total/NA	Solid	8015NM Prep	
890-1249-3	PH03	Total/NA	Solid	8015NM Prep	
890-1249-4	PH04	Total/NA	Solid	8015NM Prep	
MB 880-7855/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7855/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7855/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6052-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6052-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	8015B NM	7855
890-1249-2	PH02	Total/NA	Solid	8015B NM	7855
890-1249-3	PH03	Total/NA	Solid	8015B NM	7855
890-1249-4	PH04	Total/NA	Solid	8015B NM	7855
MB 880-7855/1-A	Method Blank	Total/NA	Solid	8015B NM	7855
LCS 880-7855/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7855
LCSD 880-7855/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7855
880-6052-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	7855

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 7858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6052-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7855

HPLC/IC

Leach Batch: 7862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Soluble	Solid	DI Leach	
890-1249-2	PH02	Soluble	Solid	DI Leach	
890-1249-3	PH03	Soluble	Solid	DI Leach	
890-1249-4	PH04	Soluble	Solid	DI Leach	
MB 880-7862/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7862/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7862/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6052-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6052-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Soluble	Solid	300.0	7862
890-1249-2	PH02	Soluble	Solid	300.0	7862
890-1249-3	PH03	Soluble	Solid	300.0	7862
890-1249-4	PH04	Soluble	Solid	300.0	7862
MB 880-7862/1-A	Method Blank	Soluble	Solid	300.0	7862
LCS 880-7862/2-A	Lab Control Sample	Soluble	Solid	300.0	7862
LCSD 880-7862/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7862
880-6052-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	7862
880-6052-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7862

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

Client Sample ID: PH01

Date Collected: 09/09/21 10:25
Date Received: 09/13/21 12:36

Lab Sample ID: 890-1249-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 13:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 16:45	CH	XEN MID

Client Sample ID: PH02

Date Collected: 09/09/21 13:55
Date Received: 09/13/21 12:36

Lab Sample ID: 890-1249-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 13:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 17:02	CH	XEN MID

Client Sample ID: PH03

Date Collected: 09/09/21 16:10
Date Received: 09/13/21 12:36

Lab Sample ID: 890-1249-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 14:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 17:07	CH	XEN MID

Client Sample ID: PH04

Date Collected: 09/09/21 11:20
Date Received: 09/13/21 12:36

Lab Sample ID: 890-1249-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mg	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 14:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 17:13	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.
Job ID: 890-1249-1
Project/Site: East Pecos Fed 22-3h
SDG: Eddy County NM

Laboratory: Eurofins Xenco, Midland

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

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: East Pecos Fed 22-3h

Job ID: 890-1249-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1249-1	PH01	Solid	09/09/21 10:25	09/13/21 12:36	8
890-1249-2	PH02	Solid	09/09/21 13:55	09/13/21 12:36	8
890-1249-3	PH03	Solid	09/09/21 16:10	09/13/21 12:36	8
890-1249-4	PH04	Solid	09/09/21 11:20	09/13/21 12:36	8

XENCO LABORATORIES

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 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701
www.xenco.com

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP USA	Company Name:	WPX Energy
Address:	3300 N A Street	Address:	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	281-702-2329	Email:	anna.byers@wsp.com

Work Order Comments

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

Project Name:	East Pecos Fed 22-3H	Turn Around	
Project Number:	3140336.083	Routine	☒
Project Location	Eddy County, NM	Rush:	See comments
Sampler's Name:	Anna Byers	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	4.8 / 4.6	Thermometer ID	TMM-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

890-1249 Chain of Custody

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	TPH (EPA 8015 mod)	BTEX (EPA 8021B)	Chloride (EPA 300.0)	Sample Comments
	PH01	S	9/9/21	1025	8'	1		X	X	X	RUSH 24 HR
	PH02		9/9/21	1355	8'	1		X	X	X	RUSH 24 HR
	PH03		9/9/21	1610	8'	1		X	X	X	
	PH04	↓	9/10/21	1120	8'	1		X	X	X	RUSH 24 HR

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 Tl Sn U V Zn

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers	Cole Carp	9.13.21 1236	2		
3				4		
5				6		

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1249-1
Address: 1211 W Florida Ave	Due Date Requested: 9/14/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: East Pecos Fed 22-3h	Project #: 88000203			
Site:	SSOW#:			

Analysis Requested

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, M - Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/5036FP_Calc BTEX	Total Number of containers	Special Instructions/Note
			Preservation Code:								
PH01 (890-1249-1)	9/9/21	10 25 Mountain		Solid			X	X	X	1	
PH02 (890-1249-2)	9/9/21	13 55 Mountain		Solid			X	X	X	1	
PH03 (890-1249-3)	9/9/21	16 10 Mountain		Solid			X	X	X	1	
PH04 (890-1249-4)	9/9/21	11 20 Mountain		Solid			X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
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	Date/Time	Company	Received by	Date/Time	Company
1	Clue Cuf 9-13-21				9/14/21 1222	
2						
3						

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
Δ Yes Δ No		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1249-1
SDG Number: Eddy County NM

Login Number: 1249
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: 890-1249-1
SDG Number: Eddy County NM

Login Number: 1249
List Number: 2
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland
List Creation: 09/14/21 12:20 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1250-1
Laboratory Sample Delivery Group: 31403360.003
Client Project/Site: East Pecos Fed 22-3H

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

Attn: Joseph Hernandez

Authorized for release by:
9/20/2021 5:05:41 PM

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

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Laboratory Job ID: 890-1250-1
SDG: 31403360.003

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Job ID: 890-1250-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1250-1

Receipt
The samples were received on 9/13/2021 12:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7758 and analytical batch 880-7857 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH05 (890-1250-9) and PH05 (890-1250-10). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Client Sample ID: PH01
Date Collected: 09/09/21 09:35
Date Received: 09/13/21 12:47
Sample Depth: 1

Lab Sample ID: 890-1250-1
Matrix: Solid

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		09/14/21 11:00	09/14/21 18:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/21 11:00	09/14/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/14/21 11:00*	*09/14/21 18:50*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/14/21 11:00*	*09/14/21 18:50*	*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		09/14/21 16:18	09/15/21 01:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*09/14/21 16:18*	*09/15/21 01:14*	*1*
o-Terphenyl	*130*		*70 - 130*	*09/14/21 16:18*	*09/15/21 01:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**996**		4.95		mg/Kg			09/17/21 00:27	1

Client Sample ID: PH01
Date Collected: 09/09/21 10:00
Date Received: 09/13/21 12:47
Sample Depth: 4

Lab Sample ID: 890-1250-2
Matrix: Solid

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		09/14/21 11:00	09/14/21 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/21 11:00	09/14/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*09/14/21 11:00*	*09/14/21 19:10*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/14/21 11:00*	*09/14/21 19:10*	*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		09/14/21 16:18	09/15/21 01:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:36	1

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Client Sample ID: PH01 — Lab Sample ID: 890-1250-2

Date Collected: 09/09/21 10:00 **Matrix: Solid**
Date Received: 09/13/21 12:47
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/14/21 16:18*	*09/15/21 01:36*	*1*
o-Terphenyl	*111*		*70 - 130*	*09/14/21 16:18*	*09/15/21 01:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**351**		4.95		mg/Kg			09/17/21 00:32	1

Client Sample ID: PH02 — Lab Sample ID: 890-1250-3

Date Collected: 09/09/21 11:30 **Matrix: Solid**
Date Received: 09/13/21 12:47
Sample Depth: 2

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		09/14/21 11:00	09/14/21 19:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/21 11:00	09/14/21 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/14/21 11:00*	*09/14/21 19:31*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/14/21 11:00*	*09/14/21 19:31*	*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		09/14/21 16:18	09/15/21 01:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 01:57	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*09/14/21 16:18*	*09/15/21 01:57*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*09/14/21 16:18*	*09/15/21 01:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		5.04		mg/Kg			09/18/21 05:47	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Client Sample ID: PH02

Lab Sample ID: 890-1250-4
Matrix: Solid
Date Collected: 09/09/21 13:35
Date Received: 09/13/21 12:47
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/14/21 11:00*	*09/14/21 19:51*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*09/14/21 11:00*	*09/14/21 19:51*	*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		09/14/21 16:18	09/15/21 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 02:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/14/21 16:18*	*09/15/21 02:19*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/14/21 16:18*	*09/15/21 02:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56.2**		4.98		mg/Kg			09/18/21 06:04	1

Client Sample ID: PH03

Lab Sample ID: 890-1250-5
Matrix: Solid
Date Collected: 09/09/21 15:40
Date Received: 09/13/21 12:47
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/14/21 11:00*	*09/14/21 20:11*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/14/21 11:00*	*09/14/21 20:11*	*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		09/14/21 16:18	09/15/21 02:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 02:41	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Client Sample ID: PH03 Lab Sample ID: 890-1250-5

Date Collected: 09/09/21 15:40 **Matrix: Solid**
Date Received: 09/13/21 12:47
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*09/14/21 16:18*	*09/15/21 02:41*	*1*
o-Terphenyl	*130*		*70 - 130*	*09/14/21 16:18*	*09/15/21 02:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.1**		5.04		mg/Kg			09/17/21 00:49	1

Client Sample ID: PH03 Lab Sample ID: 890-1250-6

Date Collected: 09/09/21 15:55 **Matrix: Solid**
Date Received: 09/13/21 12:47
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/14/21 12:00*	*09/15/21 01:59*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/14/21 12:00*	*09/15/21 01:59*	*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		09/14/21 16:18	09/15/21 03:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 03:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/14/21 16:18*	*09/15/21 03:03*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/14/21 16:18*	*09/15/21 03:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		5.02		mg/Kg			09/17/21 00:55	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Client Sample ID: PH04

Lab Sample ID: 890-1250-7
Matrix: Solid
Date Collected: 09/10/21 10:55
Date Received: 09/13/21 12:47
Sample Depth: 2

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		09/14/21 12:00	09/15/21 02:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/21 12:00	09/15/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/14/21 12:00*	*09/15/21 02:19*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/14/21 12:00*	*09/15/21 02:19*	*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		09/14/21 16:18	09/15/21 03:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 03:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/14/21 16:18*	*09/15/21 03:24*	*1*
o-Terphenyl	*112*		*70 - 130*	*09/14/21 16:18*	*09/15/21 03:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		4.98		mg/Kg			09/17/21 01:00	1

Client Sample ID: PH04

Lab Sample ID: 890-1250-8
Matrix: Solid
Date Collected: 09/10/21 11:00
Date Received: 09/13/21 12:47
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/14/21 12:00*	*09/15/21 02:40*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*09/14/21 12:00*	*09/15/21 02:40*	*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		09/14/21 16:18	09/15/21 03:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 03:46	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Client Sample ID: PH04 Lab Sample ID: 890-1250-8

Date Collected: 09/10/21 11:00 **Matrix: Solid**
Date Received: 09/13/21 12:47
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/14/21 16:18*	*09/15/21 03:46*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/14/21 16:18*	*09/15/21 03:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**803**		4.95		mg/Kg			09/17/21 01:06	1

Client Sample ID: PH05 Lab Sample ID: 890-1250-9

Date Collected: 09/10/21 12:40 **Matrix: Solid**
Date Received: 09/13/21 12:47
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*09/14/21 12:00*	*09/15/21 04:03*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/14/21 12:00*	*09/15/21 04:03*	*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		09/14/21 16:18	09/15/21 04:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 04:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*09/14/21 16:18*	*09/15/21 04:29*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*09/14/21 16:18*	*09/15/21 04:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**312**		5.00		mg/Kg			09/17/21 01:12	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Client Sample ID: PH05

Date Collected: 09/10/21 12:50
Date Received: 09/13/21 12:47
Sample Depth: 2

Lab Sample ID: 890-1250-10

Matrix: Solid

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		09/14/21 12:00	09/15/21 04:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 04:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*09/14/21 12:00*	*09/15/21 04:24*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*09/14/21 12:00*	*09/15/21 04:24*	*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		09/14/21 16:18	09/15/21 04:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 04:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/14/21 16:18*	*09/15/21 04:50*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*09/14/21 16:18*	*09/15/21 04:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**275**		5.04		mg/Kg			09/17/21 01:17	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-5958-A-41-D MS	Matrix Spike	116	83
880-5958-A-41-E MSD	Matrix Spike Duplicate	116	85
880-6057-A-1-A MS	Matrix Spike	119	87
880-6057-A-1-B MSD	Matrix Spike Duplicate	113	87
890-1250-1	PH01	100	88
890-1250-2	PH01	118	81
890-1250-3	PH02	116	81
890-1250-4	PH02	112	79
890-1250-5	PH03	112	78
890-1250-6	PH03	107	85
890-1250-7	PH04	114	81
890-1250-8	PH04	107	79
890-1250-9	PH05	122	81
890-1250-10	PH05	116	80
LCS 880-7758/1-A	Lab Control Sample	113	73
LCS 880-7874/1-A	Lab Control Sample	109	88
LCSD 880-7758/2-A	Lab Control Sample Dup	110	84
LCSD 880-7874/2-A	Lab Control Sample Dup	107	89
MB 880-7758/5-A	Method Blank	113	77
MB 880-7874/5-A	Method Blank	108	77

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)
890-1250-1	PH01	122	130
890-1250-2	PH01	102	111
890-1250-3	PH02	130	138 S1+
890-1250-4	PH02	110	120
890-1250-5	PH03	120	130
890-1250-6	PH03	113	126
890-1250-7	PH04	102	112
890-1250-8	PH04	108	110
890-1250-9	PH05	136 S1+	151 S1+
890-1250-10	PH05	121	134 S1+
LCS 880-7890/2-A	Lab Control Sample	104	103
LCSD 880-7890/3-A	Lab Control Sample Dup	103	100
MB 880-7890/1-A	Method Blank	112	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7758/5-A
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/21 09:00	09/14/21 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/14/21 09:00*	*09/14/21 12:20*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/14/21 09:00*	*09/14/21 12:20*	*1*

Lab Sample ID: LCS 880-7758/1-A
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7758

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09498		mg/Kg		95	70 - 130		
Toluene			0.100	0.09272		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.09436		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1926		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09544		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*

Lab Sample ID: LCSD 880-7758/2-A
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7758

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1030		mg/Kg		103	70 - 130	8	35
Toluene			0.100	0.09796		mg/Kg		98	70 - 130	6	35
Ethylbenzene			0.100	0.09754		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2080		mg/Kg		104	70 - 130	8	35
o-Xylene			0.100	0.1037		mg/Kg		104	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 880-5958-A-41-D MS
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U	0.0998	0.08777		mg/Kg		88	70 - 130		
Toluene	<0.00199	U	0.0998	0.08007		mg/Kg		80	70 - 130		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

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

Lab Sample ID: 880-5958-A-41-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7857 — **Prep Batch: 7758**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F1	0.0998	0.07502		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1559		mg/Kg		78	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.08068		mg/Kg		81	70 - 130

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

Lab Sample ID: 880-5958-A-41-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7857 — **Prep Batch: 7758**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07857		mg/Kg		78	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.07046		mg/Kg		70	70 - 130	13	35
Ethylbenzene	<0.00199	U F1	0.100	0.06374	F1	mg/Kg		64	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1306	F1	mg/Kg		65	70 - 130	18	35
o-Xylene	<0.00199	U F1	0.100	0.06920	F1	mg/Kg		69	70 - 130	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: MB 880-7874/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7857 — **Prep Batch: 7874**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/21 12:00	09/14/21 23:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*09/14/21 12:00*	*09/14/21 23:14*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/14/21 12:00*	*09/14/21 23:14*	*1*

Lab Sample ID: LCS 880-7874/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 7857 — **Prep Batch: 7874**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09076		mg/Kg		91	70 - 130
Toluene	0.100	0.08237		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08102		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1707		mg/Kg		85	70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

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

Lab Sample ID: LCS 880-7874/1-A
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7874

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.08631		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-7874/2-A
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7874

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1012		mg/Kg		101	70 - 130	11	35
Toluene			0.100	0.09352		mg/Kg		94	70 - 130	13	35
Ethylbenzene			0.100	0.09545		mg/Kg		95	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.1928		mg/Kg		96	70 - 130	12	35
o-Xylene			0.100	0.09783		mg/Kg		98	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-6057-A-1-A MS
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.0998	0.08191		mg/Kg		82	70 - 130		
Toluene	<0.00200	U	0.0998	0.07653		mg/Kg		77	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.07815		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1600		mg/Kg		80	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.08061		mg/Kg		81	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-6057-A-1-B MSD
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.07848		mg/Kg		79	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.07395		mg/Kg		74	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.07503		mg/Kg		75	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1542		mg/Kg		77	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07891		mg/Kg		79	70 - 130	2	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

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

Lab Sample ID: 880-6057-A-1-B MSD
Matrix: Solid
Analysis Batch: 7857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7874

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-7890/1-A
Matrix: Solid
Analysis Batch: 7865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7890

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		09/14/21 16:18	09/14/21 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/14/21 22:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/14/21 22:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	09/14/21 16:18	09/14/21 22:41	1
o-Terphenyl	124		70 - 130	09/14/21 16:18	09/14/21 22:41	1

Lab Sample ID: LCS 880-7890/2-A
Matrix: Solid
Analysis Batch: 7865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7890

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	782.9		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	956.2		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-7890/3-A
Matrix: Solid
Analysis Batch: 7865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7890

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.6		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	953.2		mg/Kg		95	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7867/1-A
Matrix: Solid
Analysis Batch: 7982

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			09/16/21 23:42	1

Lab Sample ID: LCS 880-7867/2-A
Matrix: Solid
Analysis Batch: 7982

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-7867/3-A
Matrix: Solid
Analysis Batch: 7982

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	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-1250-10 MS
Matrix: Solid
Analysis Batch: 7982

Client Sample ID: PH05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	275		252	532.1		mg/Kg		102	90 - 110

Lab Sample ID: 890-1250-10 MSD
Matrix: Solid
Analysis Batch: 7982

Client Sample ID: PH05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	275		252	532.4		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-7885/1-A
Matrix: Solid
Analysis Batch: 7986

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			09/18/21 03:50	1

Lab Sample ID: LCS 880-7885/2-A
Matrix: Solid
Analysis Batch: 7986

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.5		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-7885/3-A
Matrix: Solid
Analysis Batch: 7986

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	246.6		mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6058-A-64-C MS
Matrix: Solid
Analysis Batch: 7986

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	123		250	374.6		mg/Kg		101	90 - 110		

Lab Sample ID: 880-6058-A-64-D MSD
Matrix: Solid
Analysis Batch: 7986

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	123		250	375.7		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

GC VOA

Prep Batch: 7758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	5035	
890-1250-2	PH01	Total/NA	Solid	5035	
890-1250-3	PH02	Total/NA	Solid	5035	
890-1250-4	PH02	Total/NA	Solid	5035	
890-1250-5	PH03	Total/NA	Solid	5035	
MB 880-7758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5958-A-41-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5958-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	8021B	7758
890-1250-2	PH01	Total/NA	Solid	8021B	7758
890-1250-3	PH02	Total/NA	Solid	8021B	7758
890-1250-4	PH02	Total/NA	Solid	8021B	7758
890-1250-5	PH03	Total/NA	Solid	8021B	7758
890-1250-6	PH03	Total/NA	Solid	8021B	7874
890-1250-7	PH04	Total/NA	Solid	8021B	7874
890-1250-8	PH04	Total/NA	Solid	8021B	7874
890-1250-9	PH05	Total/NA	Solid	8021B	7874
890-1250-10	PH05	Total/NA	Solid	8021B	7874
MB 880-7758/5-A	Method Blank	Total/NA	Solid	8021B	7758
MB 880-7874/5-A	Method Blank	Total/NA	Solid	8021B	7874
LCS 880-7758/1-A	Lab Control Sample	Total/NA	Solid	8021B	7758
LCS 880-7874/1-A	Lab Control Sample	Total/NA	Solid	8021B	7874
LCSD 880-7758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7758
LCSD 880-7874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7874
880-5958-A-41-D MS	Matrix Spike	Total/NA	Solid	8021B	7758
880-5958-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7758
880-6057-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7874
880-6057-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7874

Prep Batch: 7874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-6	PH03	Total/NA	Solid	5035	
890-1250-7	PH04	Total/NA	Solid	5035	
890-1250-8	PH04	Total/NA	Solid	5035	
890-1250-9	PH05	Total/NA	Solid	5035	
890-1250-10	PH05	Total/NA	Solid	5035	
MB 880-7874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6057-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-6057-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

GC Semi VOA

Analysis Batch: 7865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	8015B NM	7890
890-1250-2	PH01	Total/NA	Solid	8015B NM	7890
890-1250-3	PH02	Total/NA	Solid	8015B NM	7890
890-1250-4	PH02	Total/NA	Solid	8015B NM	7890
890-1250-5	PH03	Total/NA	Solid	8015B NM	7890
890-1250-6	PH03	Total/NA	Solid	8015B NM	7890
890-1250-7	PH04	Total/NA	Solid	8015B NM	7890
890-1250-8	PH04	Total/NA	Solid	8015B NM	7890
890-1250-9	PH05	Total/NA	Solid	8015B NM	7890
890-1250-10	PH05	Total/NA	Solid	8015B NM	7890
MB 880-7890/1-A	Method Blank	Total/NA	Solid	8015B NM	7890
LCS 880-7890/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7890
LCSD 880-7890/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7890

Prep Batch: 7890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	8015NM Prep	
890-1250-2	PH01	Total/NA	Solid	8015NM Prep	
890-1250-3	PH02	Total/NA	Solid	8015NM Prep	
890-1250-4	PH02	Total/NA	Solid	8015NM Prep	
890-1250-5	PH03	Total/NA	Solid	8015NM Prep	
890-1250-6	PH03	Total/NA	Solid	8015NM Prep	
890-1250-7	PH04	Total/NA	Solid	8015NM Prep	
890-1250-8	PH04	Total/NA	Solid	8015NM Prep	
890-1250-9	PH05	Total/NA	Solid	8015NM Prep	
890-1250-10	PH05	Total/NA	Solid	8015NM Prep	
MB 880-7890/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7890/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7890/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Soluble	Solid	DI Leach	
890-1250-2	PH01	Soluble	Solid	DI Leach	
890-1250-5	PH03	Soluble	Solid	DI Leach	
890-1250-6	PH03	Soluble	Solid	DI Leach	
890-1250-7	PH04	Soluble	Solid	DI Leach	
890-1250-8	PH04	Soluble	Solid	DI Leach	
890-1250-9	PH05	Soluble	Solid	DI Leach	
890-1250-10	PH05	Soluble	Solid	DI Leach	
MB 880-7867/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7867/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7867/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1250-10 MS	PH05	Soluble	Solid	DI Leach	
890-1250-10 MSD	PH05	Soluble	Solid	DI Leach	

Leach Batch: 7885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-3	PH02	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

HPLC/IC (Continued)

Leach Batch: 7885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-4	PH02	Soluble	Solid	DI Leach	
MB 880-7885/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7885/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7885/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6058-A-64-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6058-A-64-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Soluble	Solid	300.0	7867
890-1250-2	PH01	Soluble	Solid	300.0	7867
890-1250-5	PH03	Soluble	Solid	300.0	7867
890-1250-6	PH03	Soluble	Solid	300.0	7867
890-1250-7	PH04	Soluble	Solid	300.0	7867
890-1250-8	PH04	Soluble	Solid	300.0	7867
890-1250-9	PH05	Soluble	Solid	300.0	7867
890-1250-10	PH05	Soluble	Solid	300.0	7867
MB 880-7867/1-A	Method Blank	Soluble	Solid	300.0	7867
LCS 880-7867/2-A	Lab Control Sample	Soluble	Solid	300.0	7867
LCSD 880-7867/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7867
890-1250-10 MS	PH05	Soluble	Solid	300.0	7867
890-1250-10 MSD	PH05	Soluble	Solid	300.0	7867

Analysis Batch: 7986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-3	PH02	Soluble	Solid	300.0	7885
890-1250-4	PH02	Soluble	Solid	300.0	7885
MB 880-7885/1-A	Method Blank	Soluble	Solid	300.0	7885
LCS 880-7885/2-A	Lab Control Sample	Soluble	Solid	300.0	7885
LCSD 880-7885/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7885
880-6058-A-64-C MS	Matrix Spike	Soluble	Solid	300.0	7885
880-6058-A-64-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7885

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Client Sample ID: PH01 Lab Sample ID: 890-1250-1

Date Collected: 09/09/21 09:35 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 18:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 01:14	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:27	CH	XEN MID

Client Sample ID: PH01 Lab Sample ID: 890-1250-2

Date Collected: 09/09/21 10:00 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 19:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 01:36	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:32	CH	XEN MID

Client Sample ID: PH02 Lab Sample ID: 890-1250-3

Date Collected: 09/09/21 11:30 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 19:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 01:57	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:47	CH	XEN MID

Client Sample ID: PH02 Lab Sample ID: 890-1250-4

Date Collected: 09/09/21 13:35 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 19:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 02:19	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 06:04	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Client Sample ID: PH03 Lab Sample ID: 890-1250-5

Date Collected: 09/09/21 15:40 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 20:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 02:41	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:49	CH	XEN MID

Client Sample ID: PH03 Lab Sample ID: 890-1250-6

Date Collected: 09/09/21 15:55 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 01:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 03:03	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:55	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-1250-7

Date Collected: 09/10/21 10:55 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 02:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 03:24	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:00	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-1250-8

Date Collected: 09/10/21 11:00 **Matrix: Solid**
Date Received: 09/13/21 12:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 02:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 03:46	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:06	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Client Sample ID: PH05

Date Collected: 09/10/21 12:40
Date Received: 09/13/21 12:47

Lab Sample ID: 890-1250-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 04:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 04:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:12	CH	XEN MID

Client Sample ID: PH05

Date Collected: 09/10/21 12:50
Date Received: 09/13/21 12:47

Lab Sample ID: 890-1250-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 04:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 04:50	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:17	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Laboratory: Eurofins Xenco, Midland

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

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

Method Summary

Client: WSP USA Inc. Job ID: 890-1250-1
Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

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: East Pecos Fed 22-3H

Job ID: 890-1250-1
SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1250-1	PH01	Solid	09/09/21 09:35	09/13/21 12:47	1
890-1250-2	PH01	Solid	09/09/21 10:00	09/13/21 12:47	4
890-1250-3	PH02	Solid	09/09/21 11:30	09/13/21 12:47	2
890-1250-4	PH02	Solid	09/09/21 13:35	09/13/21 12:47	4
890-1250-5	PH03	Solid	09/09/21 15:40	09/13/21 12:47	1
890-1250-6	PH03	Solid	09/09/21 15:55	09/13/21 12:47	4
890-1250-7	PH04	Solid	09/10/21 10:55	09/13/21 12:47	2
890-1250-8	PH04	Solid	09/10/21 11:00	09/13/21 12:47	4
890-1250-9	PH05	Solid	09/10/21 12:40	09/13/21 12:47	1
890-1250-10	PH05	Solid	09/10/21 12:50	09/13/21 12:47	2

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (If different)	WPX Attn: Jim Raley
Company Name:	WSP USA	Company Name:	WPX Energy
Address:	3300 N A Street	Address:	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	281-702-2329	Email:	anna.byers@wsp.com

Work Order Comments

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

Project Name:	East Pecos Fed 22-3H	Turn Around	
Project Number:	31403360.003	Routine	☒
Project Location	Eddy County, NM	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	4.8/4.6	Thermometer ID	TWM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015Mod)	BTEX (EPA 8021B)	Chloride (EPA 300.0)	Sample Comments
	PH01	S	9/9/21	0935	1'	1				
	PH01		9/9/21	1000	4'	1				
	PH02		9/9/21	1130	2'	1				
	PH02		9/9/21	1335	4'	1				
	PH03		9/9/21	1540	1'	1				
	PH03		9/9/21	1555	4'	1				
	PH04		9/10/21	1055	2'	1				
	PH04		9/10/21	1100	4'	1				
	PH05		9/10/21	1240	1'	1				
	PH05		9/10/21	1250	2'	1				

890-1250 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 Tl Sn U V Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers	Cole Cuff	9.13.21 1236	2		
3			4		
5			6		

Revised Date 022619 Rev. 2019.1

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-404 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1250-1
Address: 1211 W Florida Ave	Due Date Requested: 9/17/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: East Pecos Fed 22-3H	Project #: 88000203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
PH01 (890-1250-1)	9/9/21	09 35 Mountain		Solid			X	X	X	1	
PH01 (890-1250-2)	9/9/21	10 00 Mountain		Solid			X	X	X	1	
PH02 (890-1250-3)	9/9/21	11 30 Mountain		Solid			X	X	X	1	
PH02 (890-1250-4)	9/9/21	13 35 Mountain		Solid			X	X	X	1	
PH03 (890-1250-5)	9/9/21	15 40 Mountain		Solid			X	X	X	1	
PH03 (890-1250-6)	9/9/21	15 55 Mountain		Solid			X	X	X	1	
PH04 (890-1250-7)	9/10/21	10 55 Mountain		Solid			X	X	X	1	
PH04 (890-1250-8)	9/10/21	11 00 Mountain		Solid			X	X	X	1	
PH05 (890-1250-9)	9/10/21	12 40 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
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: Clue Cup 9·13·21	Date/Time	Company	Received by: Pedro	Date/Time: 9/14/21 1222	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact. ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Shipping/Receiving	Phone	Kramer Jessica		890-404 2
		E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1250-1
Address: 1211 W Florida Ave	Due Date Requested: 9/17/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: East Pecos Fed 22-3H	Project #: 88000203			
Site	SSOW#:			

Analysis Requested

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, M Hexane, N None, O AsNaO2, P - Na2O4S, Q Na2SO3, R - Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
PH05 (890-1250-10)	9/10/21	12 50 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
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	Date/Time	Company	Received by	Date/Time	Company
Clue Cnfp 9.13.21				9/14/21 1222	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Bottle Order Information

Bottle Order
Bottle Order #
Request From Client 9/13/2021
Date Order Posted
Order Status Ready To Process
Prepared By
Deliver By Date: ***9/13/2021 11:59:00PM***
Lab Project Number
PWSID

Order Completion Information

Creator Cloe Clifton
Filled by
Sent Date
Sent Via
Tracking #

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative Comment

Relinquished By	Company	Date	Time	Received By	Company	Seal #
Cloe Clifton	9.13.21					Seal #
						Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #
						Seal #
						Seal #

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1250-1
SDG Number: 31403360.003

Login Number: 1250
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: 890-1250-1
SDG Number: 31403360.003

Login Number: 1250
List Number: 2
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland
List Creation: 09/14/21 12:21 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1838-1
Laboratory Sample Delivery Group: 31403360.003
Client Project/Site: East Pecos Federal 22 #003H

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

Attn: Joseph Hernandez

JKramer

Authorized for release by:
1/25/2022 12:45:31 PM

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

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

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

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Laboratory Job ID: 890-1838-1
SDG: 31403360.003

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Job ID: 890-1838-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1838-1

Receipt
The samples were received on 1/18/2022 11:49 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 5.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17388 and analytical batch 880-17427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17278 and analytical batch 880-17438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS01 (890-1838-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17449 and 880-17449 and analytical batch 880-17490 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS01

Lab Sample ID: 890-1838-1
Matrix: Solid
Date Collected: 01/13/22 10:10
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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		01/19/22 10:00	01/20/22 17:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/22 10:00	01/20/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/19/22 10:00*	*01/20/22 17:56*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/19/22 10:00*	*01/20/22 17:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/24/22 16:33	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 F1	49.9		mg/Kg		01/19/22 13:54	01/21/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/22 13:54	01/21/22 12:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/22 13:54	01/21/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*01/19/22 13:54*	*01/21/22 12:49*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*01/19/22 13:54*	*01/21/22 12:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**703**		24.9		mg/Kg			01/19/22 16:49	5

Client Sample ID: FS02

Lab Sample ID: 890-1838-2
Matrix: Solid
Date Collected: 01/13/22 10:15
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/22 10:00	01/20/22 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*01/19/22 10:00*	*01/20/22 18:16*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS02

Lab Sample ID: 890-1838-2
Matrix: Solid
Date Collected: 01/13/22 10:15
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/19/22 10:00*	*01/20/22 18:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/24/22 16:33	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		01/19/22 13:54	01/21/22 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/22 13:54	01/21/22 13:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/22 13:54	01/21/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/19/22 13:54*	*01/21/22 13:51*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/19/22 13:54*	*01/21/22 13:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**911**		24.8		mg/Kg			01/19/22 16:56	5

Client Sample ID: FS03

Lab Sample ID: 890-1838-3
Matrix: Solid
Date Collected: 01/13/22 10:20
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*01/19/22 10:00*	*01/20/22 18:36*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/19/22 10:00*	*01/20/22 18:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS03 Lab Sample ID: 890-1838-3

Date Collected: 01/13/22 10:20 **Matrix: Solid**
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*01/19/22 13:48*	*01/20/22 02:20*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/19/22 13:48*	*01/20/22 02:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**899**		25.3		mg/Kg			01/19/22 17:19	5

Client Sample ID: FS04 Lab Sample ID: 890-1838-4

Date Collected: 01/13/22 10:24 **Matrix: Solid**
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/19/22 10:00*	*01/20/22 18:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/19/22 10:00*	*01/20/22 18:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	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		01/19/22 13:48	01/20/22 02:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*01/19/22 13:48*	*01/20/22 02:41*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/19/22 13:48*	*01/20/22 02:41*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS04 Lab Sample ID: 890-1838-4

Date Collected: 01/13/22 10:24 **Matrix: Solid**
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563		5.00		mg/Kg			01/19/22 17:27	1

Client Sample ID: FS05 Lab Sample ID: 890-1838-5

Date Collected: 01/13/22 10:28 **Matrix: Solid**
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/19/22 10:00	01/20/22 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/19/22 10:00*	*01/20/22 19:17*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/19/22 10:00*	*01/20/22 19:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	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		01/19/22 13:48	01/20/22 03:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 03:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/19/22 13:48*	*01/20/22 03:02*	*1*
o-Terphenyl	*95*		*70 - 130*	*01/19/22 13:48*	*01/20/22 03:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	577		24.9		mg/Kg			01/19/22 17:34	5

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS06

Lab Sample ID: 890-1838-6
Matrix: Solid
Date Collected: 01/13/22 10:35
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/19/22 16:00	01/20/22 19:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/19/22 16:00	01/20/22 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/19/22 16:00*	*01/20/22 19:38*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/19/22 16:00*	*01/20/22 19:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/24/22 16:33	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		01/19/22 13:48	01/20/22 03:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/19/22 13:48	01/20/22 03:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/22 13:48	01/20/22 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*01/19/22 13:48*	*01/20/22 03:23*	*1*
o-Terphenyl	*99*		*70 - 130*	*01/19/22 13:48*	*01/20/22 03:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		24.8		mg/Kg			01/19/22 17:42	5

Client Sample ID: FS07

Lab Sample ID: 890-1838-7
Matrix: Solid
Date Collected: 01/13/22 10:42
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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		01/21/22 07:30	01/22/22 00:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 07:30	01/22/22 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*01/21/22 07:30*	*01/22/22 00:54*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS07

Lab Sample ID: 890-1838-7
Matrix: Solid
Date Collected: 01/13/22 10:42
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/21/22 07:30*	*01/22/22 00:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/24/22 16:33	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		01/19/22 13:48	01/20/22 03:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/22 13:48	01/20/22 03:43	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/22 13:48	01/20/22 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/19/22 13:48*	*01/20/22 03:43*	*1*
o-Terphenyl	*95*		*70 - 130*	*01/19/22 13:48*	*01/20/22 03:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**691**		25.0		mg/Kg			01/19/22 17:49	5

Client Sample ID: FS08

Lab Sample ID: 890-1838-8
Matrix: Solid
Date Collected: 01/13/22 10:46
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 07:30	01/22/22 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/21/22 07:30*	*01/22/22 01:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/21/22 07:30*	*01/22/22 01:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS08

Lab Sample ID: 890-1838-8
Matrix: Solid
Date Collected: 01/13/22 10:46
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/19/22 13:48*	*01/20/22 04:04*	*1*
o-Terphenyl	*91*		*70 - 130*	*01/19/22 13:48*	*01/20/22 04:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**445**		4.96		mg/Kg			01/19/22 17:57	1

Client Sample ID: FS09

Lab Sample ID: 890-1838-9
Matrix: Solid
Date Collected: 01/13/22 10:55
Date Received: 01/18/22 11:49
Sample Depth: 2.5

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		01/21/22 07:30	01/22/22 01:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
m-Xylene & p-Xylene	**0.00414**		0.00398		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
Xylenes, Total	**0.00414**		0.00398		mg/Kg		01/21/22 07:30	01/22/22 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/21/22 07:30*	*01/22/22 01:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/22 07:30*	*01/22/22 01:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00414**		0.00398		mg/Kg			01/25/22 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	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		01/19/22 13:48	01/20/22 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*01/19/22 13:48*	*01/20/22 04:25*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/19/22 13:48*	*01/20/22 04:25*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS09
Date Collected: 01/13/22 10:55
Date Received: 01/18/22 11:49
Sample Depth: 2.5

Lab Sample ID: 890-1838-9
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	782		25.2		mg/Kg			01/19/22 18:19	5

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-10292-A-2-C MSD	Matrix Spike Duplicate	102	86
880-10292-A-2-F MS	Matrix Spike	115	102
890-1838-1	FS01	125	96
890-1838-2	FS02	133 S1+	114
890-1838-3	FS03	126	95
890-1838-4	FS04	120	94
890-1838-5	FS05	120	87
890-1838-6	FS06	119	98
890-1838-7	FS07	133 S1+	103
890-1838-8	FS08	119	96
890-1838-9	FS09	119	100
890-1840-A-5-J MS	Matrix Spike	117	99
890-1840-A-5-K MSD	Matrix Spike Duplicate	139 S1+	119
LCS 880-17131/1-A	Lab Control Sample	108	93
LCS 880-17388/1-A	Lab Control Sample	117	105
LCSD 880-17131/2-A	Lab Control Sample Dup	109	94
LCSD 880-17388/2-A	Lab Control Sample Dup	124	112
MB 880-17131/5-A	Method Blank	123	97
MB 880-17341/5-A	Method Blank	122	103
MB 880-17388/5-A	Method Blank	119	101

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1836-A-1-F MS	Matrix Spike	92	82
890-1836-A-1-G MSD	Matrix Spike Duplicate	79	79
890-1838-1	FS01	62 S1-	68 S1-
890-1838-1 MS	FS01	73	71
890-1838-1 MSD	FS01	77	76
890-1838-2	FS02	74	82
890-1838-3	FS03	96	94
890-1838-4	FS04	105	108
890-1838-5	FS05	98	95
890-1838-6	FS06	103	99
890-1838-7	FS07	97	95
890-1838-8	FS08	90	91
890-1838-9	FS09	99	98
LCS 880-17278/2-A	Lab Control Sample	99	104
LCSD 880-17278/3-A	Lab Control Sample Dup	99	105
MB 880-17278/1-A	Method Blank	92	109

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO2	OTPH2										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
LCS 880-17277/2-A	Lab Control Sample	102	98										
LCSD 880-17277/3-A	Lab Control Sample Dup	106	100										
MB 880-17277/1-A	Method Blank	107	106										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17131/5-A
Matrix: Solid
Analysis Batch: 17325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/22 07:30	01/20/22 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*01/19/22 07:30*	*01/20/22 11:10*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/19/22 07:30*	*01/20/22 11:10*	*1*

Lab Sample ID: LCS 880-17131/1-A
Matrix: Solid
Analysis Batch: 17325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17131

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09493		mg/Kg		95	70 - 130		
Toluene			0.100	0.1015		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.09858		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1931		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09628		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-17131/2-A
Matrix: Solid
Analysis Batch: 17325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09424		mg/Kg		94	70 - 130	1	35
Toluene			0.100	0.09680		mg/Kg		97	70 - 130	5	35
Ethylbenzene			0.100	0.1024		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1998		mg/Kg		100	70 - 130	3	35
o-Xylene			0.100	0.09640		mg/Kg		96	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-10292-A-2-C MSD
Matrix: Solid
Analysis Batch: 17325

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.08451		mg/Kg		85	70 - 130	17	35
Toluene	<0.00202	U	0.0990	0.09054		mg/Kg		91	70 - 130	15	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Lab Sample ID: 880-10292-A-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17325 — **Prep Batch: 17131**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00202	U	0.0990	0.09309		mg/Kg		94	70 - 130	22	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1811		mg/Kg		91	70 - 130	16	35
o-Xylene	<0.00202	U	0.0990	0.08850		mg/Kg		89	70 - 130	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-10292-A-2-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17325 — **Prep Batch: 17131**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.100	0.09972		mg/Kg		99	70 - 130
Toluene	<0.00202	U	0.100	0.1050		mg/Kg		105	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.1164		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2123		mg/Kg		106	70 - 130
o-Xylene	<0.00202	U	0.100	0.1030		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-17341/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17427 — **Prep Batch: 17341**

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

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

Lab Sample ID: MB 880-17388/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17427 — **Prep Batch: 17388**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Ethylbenzene	0.003137		0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/22 07:30	01/21/22 23:24	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Lab Sample ID: MB 880-17388/5-A
Matrix: Solid
Analysis Batch: 17427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 07:30	01/21/22 23:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/21/22 07:30*	*01/21/22 23:24*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/21/22 07:30*	*01/21/22 23:24*	*1*

Lab Sample ID: LCS 880-17388/1-A
Matrix: Solid
Analysis Batch: 17427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09187		mg/Kg		92	70 - 130
Toluene	0.100	0.1014		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09342		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-17388/2-A
Matrix: Solid
Analysis Batch: 17427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2002		mg/Kg		100	70 - 130	2	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 890-1840-A-5-J MS
Matrix: Solid
Analysis Batch: 17427

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.0996	0.09366		mg/Kg		93	70 - 130
Toluene	<0.00199	U F2 F1	0.0996	0.09215		mg/Kg		91	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.1025		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1941		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.09497		mg/Kg		95	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: 890-1840-A-5-J MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17427 **Prep Batch: 17388**

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1840-A-5-K MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17427 **Prep Batch: 17388**

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	0.04365	F2 F1	mg/Kg		43	70 - 130	73	35
Toluene	<0.00199	U F2 F1	0.100	0.06067	F2 F1	mg/Kg		59	70 - 130	41	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06531	F2 F1	mg/Kg		65	70 - 130	44	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1177	F2 F1	mg/Kg		59	70 - 130	49	35
o-Xylene	<0.00199	U F1	0.100	0.06987	F1	mg/Kg		69	70 - 130	30	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

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

Lab Sample ID: MB 880-17277/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17214 **Prep Batch: 17277**

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		01/19/22 13:48	01/19/22 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/19/22 19:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/19/22 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	01/19/22 13:48	01/19/22 19:43	1
o-Terphenyl	106		70 - 130	01/19/22 13:48	01/19/22 19:43	1

Lab Sample ID: LCS 880-17277/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17214 **Prep Batch: 17277**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.2		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1056		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Lab Sample ID: LCSD 880-17277/3-A
Matrix: Solid
Analysis Batch: 17214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17277

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	919.8		mg/Kg		92	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	982.9		mg/Kg		98	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-1836-A-1-F MS
Matrix: Solid
Analysis Batch: 17214

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	1205		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1282		mg/Kg		129	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 890-1836-A-1-G MSD
Matrix: Solid
Analysis Batch: 17214

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	996	957.7	F2	mg/Kg		96	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1118		mg/Kg		112	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: MB 880-17278/1-A
Matrix: Solid
Analysis Batch: 17438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17278

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		01/19/22 13:54	01/21/22 11:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:54	01/21/22 11:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:54	01/21/22 11:45	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Lab Sample ID: MB 880-17278/1-A
Matrix: Solid
Analysis Batch: 17438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	01/19/22 13:54	01/21/22 11:45	1
o-Terphenyl	109		70 - 130	01/19/22 13:54	01/21/22 11:45	1

Lab Sample ID: LCS 880-17278/2-A
Matrix: Solid
Analysis Batch: 17438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17278

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	980.3		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	923.6		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-17278/3-A
Matrix: Solid
Analysis Batch: 17438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	995.1		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	938.2		mg/Kg		94	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-1838-1 MS
Matrix: Solid
Analysis Batch: 17438

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 17278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1391	F1	mg/Kg		136	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1141		mg/Kg		112	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	71		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Lab Sample ID: 890-1838-1 MSD
Matrix: Solid
Analysis Batch: 17438

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 17278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1250		mg/Kg		122	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1250		mg/Kg		123	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17254/1-A
Matrix: Solid
Analysis Batch: 17294

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			01/19/22 15:48	1

Lab Sample ID: LCS 880-17254/2-A
Matrix: Solid
Analysis Batch: 17294

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	269.0		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-17254/3-A
Matrix: Solid
Analysis Batch: 17294

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	267.6		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 890-1838-8 MS
Matrix: Solid
Analysis Batch: 17294

Client Sample ID: FS08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	445		248	709.0		mg/Kg		107	90 - 110

Lab Sample ID: 890-1838-8 MSD
Matrix: Solid
Analysis Batch: 17294

Client Sample ID: FS08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	445		248	705.1		mg/Kg		105	90 - 110	1	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-17449/1-A
Matrix: Solid
Analysis Batch: 17490

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			01/21/22 13:59	1

Lab Sample ID: LCS 880-17449/2-A
Matrix: Solid
Analysis Batch: 17490

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	271.8		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-17449/3-A
Matrix: Solid
Analysis Batch: 17490

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	271.9		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-10451-A-1-B MS
Matrix: Solid
Analysis Batch: 17490

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12.5	F1	250	321.4	F1	mg/Kg		124	90 - 110

Lab Sample ID: 880-10451-A-1-C MSD
Matrix: Solid
Analysis Batch: 17490

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12.5	F1	250	328.4	F1	mg/Kg		126	90 - 110	2	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC VOA

Prep Batch: 17131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	5035	
890-1838-2	FS02	Total/NA	Solid	5035	
890-1838-3	FS03	Total/NA	Solid	5035	
890-1838-4	FS04	Total/NA	Solid	5035	
890-1838-5	FS05	Total/NA	Solid	5035	
890-1838-6	FS06	Total/NA	Solid	5035	
MB 880-17131/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17131/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17131/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10292-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-10292-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 17325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8021B	17131
890-1838-2	FS02	Total/NA	Solid	8021B	17131
890-1838-3	FS03	Total/NA	Solid	8021B	17131
890-1838-4	FS04	Total/NA	Solid	8021B	17131
890-1838-5	FS05	Total/NA	Solid	8021B	17131
890-1838-6	FS06	Total/NA	Solid	8021B	17131
MB 880-17131/5-A	Method Blank	Total/NA	Solid	8021B	17131
LCS 880-17131/1-A	Lab Control Sample	Total/NA	Solid	8021B	17131
LCSD 880-17131/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17131
880-10292-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17131
880-10292-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	17131

Prep Batch: 17341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17341/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-7	FS07	Total/NA	Solid	5035	
890-1838-8	FS08	Total/NA	Solid	5035	
890-1838-9	FS09	Total/NA	Solid	5035	
MB 880-17388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1840-A-5-J MS	Matrix Spike	Total/NA	Solid	5035	
890-1840-A-5-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-7	FS07	Total/NA	Solid	8021B	17388
890-1838-8	FS08	Total/NA	Solid	8021B	17388
890-1838-9	FS09	Total/NA	Solid	8021B	17388
MB 880-17341/5-A	Method Blank	Total/NA	Solid	8021B	17341
MB 880-17388/5-A	Method Blank	Total/NA	Solid	8021B	17388
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	8021B	17388
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17388
890-1840-A-5-J MS	Matrix Spike	Total/NA	Solid	8021B	17388

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC VOA (Continued)

Analysis Batch: 17427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1840-A-5-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17388

Analysis Batch: 17647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	Total BTEX	
890-1838-2	FS02	Total/NA	Solid	Total BTEX	
890-1838-3	FS03	Total/NA	Solid	Total BTEX	
890-1838-4	FS04	Total/NA	Solid	Total BTEX	
890-1838-5	FS05	Total/NA	Solid	Total BTEX	
890-1838-6	FS06	Total/NA	Solid	Total BTEX	
890-1838-7	FS07	Total/NA	Solid	Total BTEX	
890-1838-8	FS08	Total/NA	Solid	Total BTEX	

Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-9	FS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-3	FS03	Total/NA	Solid	8015B NM	17277
890-1838-4	FS04	Total/NA	Solid	8015B NM	17277
890-1838-5	FS05	Total/NA	Solid	8015B NM	17277
890-1838-6	FS06	Total/NA	Solid	8015B NM	17277
890-1838-7	FS07	Total/NA	Solid	8015B NM	17277
890-1838-8	FS08	Total/NA	Solid	8015B NM	17277
890-1838-9	FS09	Total/NA	Solid	8015B NM	17277
MB 880-17277/1-A	Method Blank	Total/NA	Solid	8015B NM	17277
LCS 880-17277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17277
LCSD 880-17277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17277
890-1836-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17277
890-1836-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17277

Prep Batch: 17277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-3	FS03	Total/NA	Solid	8015NM Prep	
890-1838-4	FS04	Total/NA	Solid	8015NM Prep	
890-1838-5	FS05	Total/NA	Solid	8015NM Prep	
890-1838-6	FS06	Total/NA	Solid	8015NM Prep	
890-1838-7	FS07	Total/NA	Solid	8015NM Prep	
890-1838-8	FS08	Total/NA	Solid	8015NM Prep	
890-1838-9	FS09	Total/NA	Solid	8015NM Prep	
MB 880-17277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1836-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1836-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC Semi VOA

Prep Batch: 17278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8015NM Prep	
890-1838-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1838-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-1838-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8015B NM	17278
890-1838-2	FS02	Total/NA	Solid	8015B NM	17278
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015B NM	17278
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17278
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17278
890-1838-1 MS	FS01	Total/NA	Solid	8015B NM	17278
890-1838-1 MSD	FS01	Total/NA	Solid	8015B NM	17278

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8015 NM	
890-1838-2	FS02	Total/NA	Solid	8015 NM	
890-1838-3	FS03	Total/NA	Solid	8015 NM	
890-1838-4	FS04	Total/NA	Solid	8015 NM	
890-1838-5	FS05	Total/NA	Solid	8015 NM	
890-1838-6	FS06	Total/NA	Solid	8015 NM	
890-1838-7	FS07	Total/NA	Solid	8015 NM	
890-1838-8	FS08	Total/NA	Solid	8015 NM	
890-1838-9	FS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Soluble	Solid	DI Leach	
890-1838-2	FS02	Soluble	Solid	DI Leach	
890-1838-3	FS03	Soluble	Solid	DI Leach	
890-1838-4	FS04	Soluble	Solid	DI Leach	
890-1838-5	FS05	Soluble	Solid	DI Leach	
890-1838-6	FS06	Soluble	Solid	DI Leach	
890-1838-7	FS07	Soluble	Solid	DI Leach	
890-1838-8	FS08	Soluble	Solid	DI Leach	
890-1838-9	FS09	Soluble	Solid	DI Leach	
MB 880-17254/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1838-8 MS	FS08	Soluble	Solid	DI Leach	
890-1838-8 MSD	FS08	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

HPLC/IC

Analysis Batch: 17294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Soluble	Solid	300.0	17254
890-1838-2	FS02	Soluble	Solid	300.0	17254
890-1838-3	FS03	Soluble	Solid	300.0	17254
890-1838-4	FS04	Soluble	Solid	300.0	17254
890-1838-5	FS05	Soluble	Solid	300.0	17254
890-1838-6	FS06	Soluble	Solid	300.0	17254
890-1838-7	FS07	Soluble	Solid	300.0	17254
890-1838-8	FS08	Soluble	Solid	300.0	17254
890-1838-9	FS09	Soluble	Solid	300.0	17254
MB 880-17254/1-A	Method Blank	Soluble	Solid	300.0	17254
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	300.0	17254
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17254
890-1838-8 MS	FS08	Soluble	Solid	300.0	17254
890-1838-8 MSD	FS08	Soluble	Solid	300.0	17254

Leach Batch: 17449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10451-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10451-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17449/1-A	Method Blank	Soluble	Solid	300.0	17449
LCS 880-17449/2-A	Lab Control Sample	Soluble	Solid	300.0	17449
LCSD 880-17449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17449
880-10451-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	17449
880-10451-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17449

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS01 Lab Sample ID: 890-1838-1

Date Collected: 01/13/22 10:10 **Matrix: Solid**
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 17:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17438	01/21/22 12:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 16:49	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-1838-2

Date Collected: 01/13/22 10:15 **Matrix: Solid**
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 18:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17438	01/21/22 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 16:56	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-1838-3

Date Collected: 01/13/22 10:20 **Matrix: Solid**
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 18:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 02:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:19	CH	XEN MID

Client Sample ID: FS04 Lab Sample ID: 890-1838-4

Date Collected: 01/13/22 10:24 **Matrix: Solid**
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 18:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS04
Date Collected: 01/13/22 10:24
Date Received: 01/18/22 11:49

Lab Sample ID: 890-1838-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 02:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			17294	01/19/22 17:27	CH	XEN MID

Client Sample ID: FS05
Date Collected: 01/13/22 10:28
Date Received: 01/18/22 11:49

Lab Sample ID: 890-1838-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 19:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 03:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:34	CH	XEN MID

Client Sample ID: FS06
Date Collected: 01/13/22 10:35
Date Received: 01/18/22 11:49

Lab Sample ID: 890-1838-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17131	01/19/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 19:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 03:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:42	CH	XEN MID

Client Sample ID: FS07
Date Collected: 01/13/22 10:42
Date Received: 01/18/22 11:49

Lab Sample ID: 890-1838-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 03:43	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Client Sample ID: FS07

Lab Sample ID: 890-1838-7

Date Collected: 01/13/22 10:42
Matrix: Solid
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:49	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-1838-8

Date Collected: 01/13/22 10:46
Matrix: Solid
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 01:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			17294	01/19/22 17:57	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-1838-9

Date Collected: 01/13/22 10:55
Matrix: Solid
Date Received: 01/18/22 11:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 01:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 04:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 18:19	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1838-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1
SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1838-1	FS01	Solid	01/13/22 10:10	01/18/22 11:49	2.5
890-1838-2	FS02	Solid	01/13/22 10:15	01/18/22 11:49	2.5
890-1838-3	FS03	Solid	01/13/22 10:20	01/18/22 11:49	2.5
890-1838-4	FS04	Solid	01/13/22 10:24	01/18/22 11:49	2.5
890-1838-5	FS05	Solid	01/13/22 10:28	01/18/22 11:49	2.5
890-1838-6	FS06	Solid	01/13/22 10:35	01/18/22 11:49	2.5
890-1838-7	FS07	Solid	01/13/22 10:42	01/18/22 11:49	2.5
890-1838-8	FS08	Solid	01/13/22 10:46	01/18/22 11:49	2.5
890-1838-9	FS09	Solid	01/13/22 10:55	01/18/22 11:49	2.5

Chain of Custody

XENCO LABORATORIES

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

www.xenco.com Page 1 of 2

Work Order No: _____

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP	Company Name	WPX Energy
Address:	3300 North A Street	Address	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP	Carlsbad, NM 88220
Phone	281-702-2329	Email	Anna.Byers@wsp.com,

Work Order Comments

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

Project Name:	East Pecos Federal 22 #003H	Turn Around	
Project Number:	31403360.003	Routine ☐	
Incident ID:	nAPP2123361366	Rush: 24 HR	
Sampler's Name:	Gilbert Moreno	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	5.8 / 5.6	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS01	S	1.13.22	10:10	2.5	1			X
FS02	S	1.13.22	10:15	2.5	1			X
FS03	S	1.13.22	10:20	2.5	1			X
FS04	S	1.13.22	10:24	2.5	1			X
FS05	S	1.13.22	10:28	2.5	1			X
FS06	S	1.13.22	10:35	2.5	1			X
FS07	S	1.13.22	10:42	2.5	1			X
FS08	S	1.13.22	10:46	2.5	1			X
FS09	S	1.13.22	10:55	2.5	1			X
								X

890-1838 Chain of Custody

Work Order Notes

CC: 1061208201
AFE:
API:

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

Sample Comments

Same Samples CL-24HR Rush

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 Tl Sn U V Zn

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		N.	1/18/22 11:49	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

XENCO LABORATORIES

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP	Company Name	WPX Energy
Address:	3300 North A Street	Address	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP	Carlsbad, NM 88220
Phone:	281-702-2329	Email:	Anna.Byers@wsp.com,

Work Order Comments

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

Project Name:	East Pecos Federal 22 #003H	Turn Around	
Project Number:	31403360.003	Routine	☑
Incident ID:	nAPP2123361366	Rush:	
Sampler's Name:	Gilbert Moreno	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	5.8 / 5.6	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS01	S	1.13.22	10:10	2.5	1	X	X	
FS02	S	1.13.22	10:15	2.5	1	X	X	
FS03	S	1.13.22	10:20	2.5	1	X	X	
FS04	S	1.13.22	10:24	2.5	1	X	X	
FS05	S	1.13.22	10:28	2.5	1	X	X	
FS06	S	1.13.22	10:35	2.5	1	X	X	
FS07	S	1.13.22	10:42	2.5	1	X	X	
FS08	S	1.13.22	10:46	2.5	1	X	X	
FS09	S	1.13.22	10:55	2.5	1	X	X	

Work Order Notes

CC 1061208201
AFE
API

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	N.	11/18/22 11:30	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-591 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-1838-1
Address: 1211 W Florida Ave	Due Date Requested: 1/19/2022			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: East Pecos Fewderal 22 #003h	Project #: 88000203			
Site	SSOW#:			

Analysis Requested

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, M - Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
Preservation Code:													
FS01 (890-1838-1)	1/13/22	10 10 Mountain		Solid			X	X	X	X	X	1	
FS02 (890-1838-2)	1/13/22	10 15 Mountain		Solid			X	X	X	X	X	1	
FS03 (890-1838-3)	1/13/22	10 20 Mountain		Solid			X	X	X	X	X	1	
FS04 (890-1838-4)	1/13/22	10 24 Mountain		Solid			X	X	X	X	X	1	
FS05 (890-1838-5)	1/13/22	10 28 Mountain		Solid			X	X	X	X	X	1	
FS06 (890-1838-6)	1/13/22	10 35 Mountain		Solid			X	X	X	X	X	1	
FS07 (890-1838-7)	1/13/22	10 42 Mountain		Solid			X	X	X	X	X	1	
FS08 (890-1838-8)	1/13/22	10 46 Mountain		Solid			X	X	X	X	X	1	
FS09 (890-1838-9)	1/13/22	10 55 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins South Central places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins South Central laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins South Central attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins South Central

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
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	Date/Time	Company	Received by	Date/Time	Company
1	Clive Cuyo	1.18.22				
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				J Kramer	1.19.22 115	
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1838-1
SDG Number: 31403360.003

Login Number: 1838
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1838-1
SDG Number: 31403360.003

Login Number: 1838
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 01/19/22 01:26 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1847-1
Laboratory Sample Delivery Group: 31403360.003
Client Project/Site: East Pecos Federal 22 # 003h

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

Attn: Joseph Hernandez

JKramer

Authorized for release by:
1/20/2022 4:45:50 PM

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

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003h

Laboratory Job ID: 890-1847-1
SDG: 31403360.003

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1847-1
Project/Site: East Pecos Federal 22 # 003h SDG: 31403360.003

Qualifiers

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: East Pecos Federal 22 # 003h

Job ID: 890-1847-1
SDG: 31403360.003

Job ID: 890-1847-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1847-1

Receipt

The samples were received on 1/19/2022 8:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

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: East Pecos Federal 22 # 003h

Job ID: 890-1847-1
SDG: 31403360.003

Client Sample ID: FS11
Lab Sample ID: 890-1847-1
Date Collected: 01/18/22 12:13
Matrix: Solid
Date Received: 01/19/22 08:14
Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	949		24.9		mg/Kg			01/20/22 14:10	5

Client Sample ID: FS13
Lab Sample ID: 890-1847-2
Date Collected: 01/18/22 12:15
Matrix: Solid
Date Received: 01/19/22 08:14
Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		24.8		mg/Kg			01/20/22 14:18	5

Client Sample ID: FS15
Lab Sample ID: 890-1847-3
Date Collected: 01/18/22 12:17
Matrix: Solid
Date Received: 01/19/22 08:14
Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		24.9		mg/Kg			01/20/22 14:25	5

Client Sample ID: SW03
Lab Sample ID: 890-1847-4
Date Collected: 01/18/22 12:25
Matrix: Solid
Date Received: 01/19/22 08:14
Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		24.9		mg/Kg			01/20/22 14:33	5

Client Sample ID: SW04
Lab Sample ID: 890-1847-5
Date Collected: 01/18/22 12:27
Matrix: Solid
Date Received: 01/19/22 08:14
Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		25.0		mg/Kg			01/20/22 14:41	5

Client Sample ID: SW05
Lab Sample ID: 890-1847-6
Date Collected: 01/18/22 12:30
Matrix: Solid
Date Received: 01/19/22 08:14
Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		25.0		mg/Kg			01/20/22 14:48	5

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17254/1-A
Matrix: Solid
Analysis Batch: 17294

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			01/19/22 15:48	1

Lab Sample ID: LCS 880-17254/2-A
Matrix: Solid
Analysis Batch: 17294

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	269.0		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-17254/3-A
Matrix: Solid
Analysis Batch: 17294

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	267.6		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 890-1838-A-8-C MS
Matrix: Solid
Analysis Batch: 17294

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	445		248	709.0		mg/Kg		107	90 - 110		

Lab Sample ID: 890-1838-A-8-D MSD
Matrix: Solid
Analysis Batch: 17294

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	445		248	705.1		mg/Kg		105	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1847-1
Project/Site: East Pecos Federal 22 # 003h SDG: 31403360.003

HPLC/IC

Leach Batch: 17254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1847-1	FS11	Soluble	Solid	DI Leach	
890-1847-2	FS13	Soluble	Solid	DI Leach	
890-1847-3	FS15	Soluble	Solid	DI Leach	
890-1847-4	SW03	Soluble	Solid	DI Leach	
890-1847-5	SW04	Soluble	Solid	DI Leach	
890-1847-6	SW05	Soluble	Solid	DI Leach	
MB 880-17254/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1838-A-8-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1838-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1847-1	FS11	Soluble	Solid	300.0	17254
890-1847-2	FS13	Soluble	Solid	300.0	17254
890-1847-3	FS15	Soluble	Solid	300.0	17254
890-1847-4	SW03	Soluble	Solid	300.0	17254
890-1847-5	SW04	Soluble	Solid	300.0	17254
890-1847-6	SW05	Soluble	Solid	300.0	17254
MB 880-17254/1-A	Method Blank	Soluble	Solid	300.0	17254
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	300.0	17254
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17254
890-1838-A-8-C MS	Matrix Spike	Soluble	Solid	300.0	17254
890-1838-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17254

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1
SDG: 31403360.003

Client Sample ID: FS11

Date Collected: 01/18/22 12:13
Date Received: 01/19/22 08:14

Lab Sample ID: 890-1847-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:10	CH	XEN MID

Client Sample ID: FS13

Date Collected: 01/18/22 12:15
Date Received: 01/19/22 08:14

Lab Sample ID: 890-1847-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:18	CH	XEN MID

Client Sample ID: FS15

Date Collected: 01/18/22 12:17
Date Received: 01/19/22 08:14

Lab Sample ID: 890-1847-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:25	CH	XEN MID

Client Sample ID: SW03

Date Collected: 01/18/22 12:25
Date Received: 01/19/22 08:14

Lab Sample ID: 890-1847-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:33	CH	XEN MID

Client Sample ID: SW04

Date Collected: 01/18/22 12:27
Date Received: 01/19/22 08:14

Lab Sample ID: 890-1847-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:41	CH	XEN MID

Client Sample ID: SW05

Date Collected: 01/18/22 12:30
Date Received: 01/19/22 08:14

Lab Sample ID: 890-1847-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:48	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Job ID: 890-1847-1
Project/Site: East Pecos Federal 22 # 003h
SDG: 31403360.003

Laboratory: Eurofins Midland

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1
SDG: 31403360.003

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	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.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1
SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1847-1	FS11	Solid	01/18/22 12:13	01/19/22 08:14	4.5
890-1847-2	FS13	Solid	01/18/22 12:15	01/19/22 08:14	4.5
890-1847-3	FS15	Solid	01/18/22 12:17	01/19/22 08:14	4.5
890-1847-4	SW03	Solid	01/18/22 12:25	01/19/22 08:14	0 - 4.5
890-1847-5	SW04	Solid	01/18/22 12:27	01/19/22 08:14	0 - 4.5
890-1847-6	SW05	Solid	01/18/22 12:30	01/19/22 08:14	0 - 4.5

Chain of Custody

XENCO LABORATORIES

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

Work Order No: _____

www.xenco.com Page 1 of 1

1/20/2022

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP	Company Name	WPX Energy
Address:	3300 North A Street	Address	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP	Carlsbad, NM 88220
Phone	281-702-2329	Email	Anna.Byers@wsp.com,

Work Order Comments

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

Project Name:	East Pecos Federal 22 #003H	Turn Around	
Project Number:	31403360.003	Routine ☐	
Incident ID:	nAPP2123361366	Rush: 24HR	
Sampler's Name:	Gilbert Moreno	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0/0.8	Thermometer ID		
Received Intact:	(Yes) No	TNM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS11	S	1.18.22	12:13	4.5	1			X
FS13	S	1.18.22	12:15	4.5	1			X
FS15	S	1.18.22	12:17	4.5	1			X
SW03	S	1.18.22	12:25	0-4.5	1			X
SW04	S	1.18.22	12:27	0-4.5	1			X
SW05	S	1.18.22	12:30	0-4.5	1			X

1.18.22

890-1847 Chain of Custody

Work Order Notes

CC: 1061208201
AFE
API

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1-19-22 0814	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1847-1
SDG Number: 31403360.003

Login Number: 1847
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1847-1
SDG Number: 31403360.003

Login Number: 1847
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/20/22 11:57 AM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1858-1
Laboratory Sample Delivery Group: 31403360.003
Client Project/Site: East Pecos Federal 22 # 003H

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

Attn: Joseph Hernandez

JKramer

Authorized for release by:
1/28/2022 3:35:37 PM

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

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Laboratory Job ID: 890-1858-1
SDG: 31403360.003

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1858-1
Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1858-1
Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

Job ID: 890-1858-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1858-1

Receipt
The samples were received on 1/21/2022 4:46 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 8.0°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-17749/2-A), (LCSD 880-17749/3-A) and (890-1863-A-1-E MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC
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: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Client Sample ID: FS06

Lab Sample ID: 890-1858-1
Matrix: Solid
Date Collected: 01/21/22 10:55
Date Received: 01/21/22 16:46
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/25/22 07:13	01/25/22 15:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/22 07:13	01/25/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*01/25/22 07:13*	*01/25/22 15:26*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/25/22 07:13*	*01/25/22 15:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.1**		50.0		mg/Kg			01/27/22 16:10	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		01/26/22 08:19	01/26/22 17:26	1
Diesel Range Organics (Over C10-C28)	**62.1**		50.0		mg/Kg		01/26/22 08:19	01/26/22 17:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/26/22 08:19*	*01/26/22 17:26*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/26/22 08:19*	*01/26/22 17:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**589**		4.97		mg/Kg			01/27/22 20:59	1

Client Sample ID: FS07

Lab Sample ID: 890-1858-2
Matrix: Solid
Date Collected: 01/21/22 11:10
Date Received: 01/21/22 16:46
Sample Depth: 3

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		01/25/22 07:13	01/25/22 15:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/25/22 07:13	01/25/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/25/22 07:13*	*01/25/22 15:47*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Client Sample ID: FS07
Date Collected: 01/21/22 11:10
Date Received: 01/21/22 16:46
Sample Depth: 3

Lab Sample ID: 890-1858-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/25/22 07:13*	*01/25/22 15:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/27/22 16:10	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		01/25/22 14:20	01/26/22 06:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/22 14:20	01/26/22 06:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/22 14:20	01/26/22 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/25/22 14:20*	*01/26/22 06:40*	*1*
o-Terphenyl	*91*		*70 - 130*	*01/25/22 14:20*	*01/26/22 06:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1030**		25.0		mg/Kg			01/27/22 21:07	5

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-10483-A-31-D MS	Matrix Spike	103	105
880-10483-A-31-E MSD	Matrix Spike Duplicate	106	99
890-1858-1	FS06	126	102
890-1858-2	FS07	107	108
LCS 880-17651/1-A	Lab Control Sample	96	106
LCSD 880-17651/2-A	Lab Control Sample Dup	101	99
MB 880-17651/5-A	Method Blank	104	90

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-10455-A-1-F MS	Matrix Spike	76	80
880-10455-A-1-G MSD	Matrix Spike Duplicate	75	77
890-1858-1	FS06	72	72
890-1858-2	FS07	78	91
890-1863-A-1-E MS	Matrix Spike	73	69 S1-
890-1863-A-1-F MSD	Matrix Spike Duplicate	77	73
LCS 880-17729/2-A	Lab Control Sample	108	118
LCS 880-17749/2-A	Lab Control Sample	131 S1+	125
LCSD 880-17729/3-A	Lab Control Sample Dup	102	112
LCSD 880-17749/3-A	Lab Control Sample Dup	137 S1+	140 S1+
MB 880-17729/1-A	Method Blank	92	111
MB 880-17749/1-A	Method Blank	106	119

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17651/5-A
Matrix: Solid
Analysis Batch: 17652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/22 07:13	01/25/22 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/25/22 07:13*	*01/25/22 10:38*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/22 07:13*	*01/25/22 10:38*	*1*

Lab Sample ID: LCS 880-17651/1-A
Matrix: Solid
Analysis Batch: 17652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08637		mg/Kg		86	70 - 130
Toluene	0.100	0.07496		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07679		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1563		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07613		mg/Kg		76	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-17651/2-A
Matrix: Solid
Analysis Batch: 17652

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09341		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.08777		mg/Kg		88	70 - 130	16	35
Ethylbenzene	0.100	0.08431		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130	12	35
o-Xylene	0.100	0.08578		mg/Kg		86	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-10483-A-31-D MS
Matrix: Solid
Analysis Batch: 17652

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.101	0.09564		mg/Kg		95	70 - 130
Toluene	<0.00200	U	0.101	0.08614		mg/Kg		85	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1858-1
Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

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

Lab Sample ID: 880-10483-A-31-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17652 **Prep Batch: 17651**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.101	0.08454		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.202	0.1734		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.101	0.08391		mg/Kg		83	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-10483-A-31-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17652 **Prep Batch: 17651**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09453		mg/Kg		95	70 - 130	1	35
Toluene	<0.00200	U	0.0994	0.08605		mg/Kg		87	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0994	0.09097		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1887		mg/Kg		95	70 - 130	8	35
o-Xylene	<0.00200	U	0.0994	0.09057		mg/Kg		91	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-17729/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17660 **Prep Batch: 17729**

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		01/25/22 14:20	01/25/22 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/22 14:20	01/25/22 21:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/22 14:20	01/25/22 21:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*01/25/22 14:20*	*01/25/22 21:23*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/25/22 14:20*	*01/25/22 21:23*	*1*

Lab Sample ID: LCS 880-17729/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17660 **Prep Batch: 17729**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	937.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		105	70 - 130

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1858-1
Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

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

Lab Sample ID: LCS 880-17729/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17660 **Prep Batch: 17729**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-17729/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17660 **Prep Batch: 17729**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	911.9		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 880-10455-A-1-F MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17660 **Prep Batch: 17729**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1048		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1217		mg/Kg		120	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-10455-A-1-G MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17660 **Prep Batch: 17729**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1096		mg/Kg		106	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1189		mg/Kg		118	70 - 130	2	20

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

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

Lab Sample ID: MB 880-17749/1-A
Matrix: Solid
Analysis Batch: 17755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17749

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		01/26/22 08:19	01/26/22 11:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 11:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/26/22 08:19*	*01/26/22 11:10*	*1*
o-Terphenyl	*119*		*70 - 130*	*01/26/22 08:19*	*01/26/22 11:10*	*1*

Lab Sample ID: LCS 880-17749/2-A
Matrix: Solid
Analysis Batch: 17755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1093		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1153		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-17749/3-A
Matrix: Solid
Analysis Batch: 17755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1100		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1225		mg/Kg		122	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*137*	*S1+*	*70 - 130*
o-Terphenyl	*140*	*S1+*	*70 - 130*

Lab Sample ID: 890-1863-A-1-E MS
Matrix: Solid
Analysis Batch: 17755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1106		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	964.5		mg/Kg		95	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1858-1
Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

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

Lab Sample ID: 890-1863-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17755 **Prep Batch: 17749**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 890-1863-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17755 **Prep Batch: 17749**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1144		mg/Kg		115	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1028		mg/Kg		101	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	73		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17707/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 17737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/27/22 17:51	1

Lab Sample ID: LCS 880-17707/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 17737

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	274.3		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-17707/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 17737

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	273.1		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-1857-A-2-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 17737

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	17.4		250	284.4		mg/Kg		107	90 - 110		

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1857-A-2-E MSD
Matrix: Solid
Analysis Batch: 17737

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	17.4		250	285.1		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1858-1
Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

GC VOA

Prep Batch: 17651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	5035	
890-1858-2	FS07	Total/NA	Solid	5035	
MB 880-17651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10483-A-31-D MS	Matrix Spike	Total/NA	Solid	5035	
880-10483-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8021B	17651
890-1858-2	FS07	Total/NA	Solid	8021B	17651
MB 880-17651/5-A	Method Blank	Total/NA	Solid	8021B	17651
LCS 880-17651/1-A	Lab Control Sample	Total/NA	Solid	8021B	17651
LCSD 880-17651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17651
880-10483-A-31-D MS	Matrix Spike	Total/NA	Solid	8021B	17651
880-10483-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17651

Analysis Batch: 18058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	Total BTEX	
890-1858-2	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 17660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-2	FS07	Total/NA	Solid	8015B NM	17729
MB 880-17729/1-A	Method Blank	Total/NA	Solid	8015B NM	17729
LCS 880-17729/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17729
LCSD 880-17729/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17729
880-10455-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17729
880-10455-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17729

Prep Batch: 17729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-2	FS07	Total/NA	Solid	8015NM Prep	
MB 880-17729/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17729/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17729/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10455-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10455-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 17749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8015NM Prep	
MB 880-17749/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17749/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1863-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1863-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

GC Semi VOA

Analysis Batch: 17755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8015B NM	17749
MB 880-17749/1-A	Method Blank	Total/NA	Solid	8015B NM	17749
LCS 880-17749/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17749
LCSD 880-17749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17749
890-1863-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	17749
890-1863-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17749

Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8015 NM	
890-1858-2	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Soluble	Solid	DI Leach	
890-1858-2	FS07	Soluble	Solid	DI Leach	
MB 880-17707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1857-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1857-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 17737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Soluble	Solid	300.0	17707
890-1858-2	FS07	Soluble	Solid	300.0	17707
MB 880-17707/1-A	Method Blank	Soluble	Solid	300.0	17707
LCS 880-17707/2-A	Lab Control Sample	Soluble	Solid	300.0	17707
LCSD 880-17707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17707
890-1857-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	17707
890-1857-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17707

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Client Sample ID: FS06

Date Collected: 01/21/22 10:55
Date Received: 01/21/22 16:46

Lab Sample ID: 890-1858-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 15:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17749	01/26/22 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17755	01/26/22 17:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17707	01/25/22 12:33	CH	XEN MID
Soluble	Analysis	300.0		1			17737	01/27/22 20:59	CH	XEN MID

Client Sample ID: FS07

Date Collected: 01/21/22 11:10
Date Received: 01/21/22 16:46

Lab Sample ID: 890-1858-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 15:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17729	01/25/22 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/26/22 06:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17707	01/25/22 12:33	CH	XEN MID
Soluble	Analysis	300.0		5			17737	01/27/22 21:07	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1
SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1858-1	FS06	Solid	01/21/22 10:55	01/21/22 16:46	3
890-1858-2	FS07	Solid	01/21/22 11:10	01/21/22 16:46	3

Chain of Custody

XENCO LABORATORIES

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP	Company Name	WPX Energy
Address:	3300 North A Street	Address	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP	Carlsbad, NM 88220
Phone	281-702-2329	Email	Anna.Byers@wsp.com,

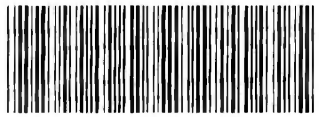
Work Order Comments

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

Project Name:	East Pecos Federal 22 #003H	Turn Around	
Project Number:	31403360.003	Routine	☑
Incident ID:	nAPP2123361366	Rush:	
Sampler's Name:	Gilbert Moreno	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	8.2/8.0	Thermometer ID	TNM-007
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	02

ANALYSIS REQUEST



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS06	S	1.21.22	10:55	3	1	X	X	X
FS07	S	1.21.22	11:10	3	1	X	X	X

Work Order Notes

CC 1061208201
AFE
API

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

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			1.21.22 1646			
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-597 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-1858-1
Address: 1211 W Florida Ave	Due Date Requested: 1/27/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: East Pecos Federal 22 # 003H	Project #: 88000203			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M - Hexane
B NaOH	N None
C Zn Acetate	O - AsNaO2
D - Nitric Acid	P Na2O4S
E NaHSO4	Q Na2SO3
F - MeOH	R Na2S2O3
G Amchlor	S H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I Ice	U Acetone
J DI Water	V MCAA
K EDTA	W pH 4-5
L EDA	Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	8015MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
FS06 (890-1858-1)	1/21/22	10 55 Mountain		Solid			X	X	X	X	X	1	
FS07 (890-1858-2)	1/21/22	11 10 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
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	Date/Time	Company	Received by	Date/Time	Company
	1/24/22			1-25-22 11:50	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		4.5/4.6 .10 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1858-1
SDG Number: 31403360.003

Login Number: 1858
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1858-1
SDG Number: 31403360.003

Login Number: 1858
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/25/22 11:57 AM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1877-1
Laboratory Sample Delivery Group: 31403360.003
Client Project/Site: East Pecos Federal 22 #003H

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

Attn: Joseph Hernandez

JKramer

Authorized for release by:
2/7/2022 1:39:57 PM

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

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

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

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Laboratory Job ID: 890-1877-1
SDG: 31403360.003

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Job ID: 890-1877-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1877-1

Receipt
The samples were received on 1/27/2022 8:43 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 1.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17780 and analytical batch 880-17974 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-1883-A-1-C MS) and (890-1883-A-1-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-18150 and analytical batch 880-18223 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW07 (890-1877-2), SW08 (890-1877-3), SW09 (890-1877-4), SW01 (890-1877-5), FS01 (890-1877-7), (880-10650-A-21-F), (880-10650-A-21-G MS) and (880-10650-A-21-H MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-10698-A-1-C MS) and (880-10698-A-1-D MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18029 and analytical batch 880-18094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18214 and analytical batch 880-18520 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: SW06

Lab Sample ID: 890-1877-1
Matrix: Solid
Date Collected: 01/26/22 09:15
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/28/22 07:30	01/29/22 15:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/28/22 07:30	01/29/22 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/28/22 07:30*	*01/29/22 15:24*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/28/22 07:30*	*01/29/22 15:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/22 19:05	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		01/31/22 11:10	02/01/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 11:10	02/01/22 18:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 11:10	02/01/22 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/31/22 11:10*	*02/01/22 18:27*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/31/22 11:10*	*02/01/22 18:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**431**		25.1		mg/Kg			02/01/22 20:20	5

Client Sample ID: SW07

Lab Sample ID: 890-1877-2
Matrix: Solid
Date Collected: 01/26/22 13:30
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/28/22 07:30	01/29/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*01/28/22 07:30*	*01/29/22 15:44*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: SW07

Lab Sample ID: 890-1877-2
Matrix: Solid
Date Collected: 01/26/22 13:30
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*01/28/22 07:30*	*01/29/22 15:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/22 19:05	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		01/31/22 12:03	02/02/22 01:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 01:44	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*50*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 01:44*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 01:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2030**		24.9		mg/Kg			02/01/22 20:27	5

Client Sample ID: SW08

Lab Sample ID: 890-1877-3
Matrix: Solid
Date Collected: 01/26/22 14:00
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

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		01/28/22 07:30	01/29/22 16:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/28/22 07:30*	*01/29/22 16:05*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/28/22 07:30*	*01/29/22 16:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: SW08

Lab Sample ID: 890-1877-3
Matrix: Solid
Date Collected: 01/26/22 14:00
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

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	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*54*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 02:05*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 02:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**198**		5.00		mg/Kg			02/01/22 20:33	1

Client Sample ID: SW09

Lab Sample ID: 890-1877-4
Matrix: Solid
Date Collected: 01/26/22 15:45
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/28/22 07:30	01/29/22 16:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/28/22 07:30	01/29/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/28/22 07:30*	*01/29/22 16:25*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/28/22 07:30*	*01/29/22 16:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	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		01/31/22 12:03	02/02/22 02:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 02:28*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/31/22 12:03*	*02/02/22 02:28*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: SW09

Lab Sample ID: 890-1877-4
Matrix: Solid
Date Collected: 01/26/22 15:45
Date Received: 01/27/22 08:43
Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		4.95		mg/Kg			02/03/22 17:10	1

Client Sample ID: SW01

Lab Sample ID: 890-1877-5
Matrix: Solid
Date Collected: 01/26/22 10:50
Date Received: 01/27/22 08:43
Sample Depth: 0 - 3

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		01/28/22 07:30	01/29/22 16:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/28/22 07:30*	*01/29/22 16:46*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/28/22 07:30*	*01/29/22 16:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	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		01/31/22 12:03	02/02/22 02:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 02:50*	*1*
o-Terphenyl	*84*		*70 - 130*	*01/31/22 12:03*	*02/02/22 02:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470	F1	24.8		mg/Kg			02/03/22 17:22	5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: SW02 Lab Sample ID: 890-1877-6

Date Collected: 01/26/22 10:55 **Matrix: Solid**
Date Received: 01/27/22 08:43
Sample Depth: 0 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/28/22 07:30*	*01/29/22 17:06*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/28/22 07:30*	*01/29/22 17:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	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		01/31/22 12:03	02/02/22 03:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/31/22 12:03*	*02/02/22 03:11*	*1*
o-Terphenyl	*89*		*70 - 130*	*01/31/22 12:03*	*02/02/22 03:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**477**		25.1		mg/Kg			02/03/22 17:58	5

Client Sample ID: FS01 Lab Sample ID: 890-1877-7

Date Collected: 01/26/22 09:10 **Matrix: Solid**
Date Received: 01/27/22 08:43
Sample Depth: 3

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		01/28/22 07:30	01/28/22 21:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/28/22 07:30	01/28/22 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*01/28/22 07:30*	*01/28/22 21:12*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: FS01

Lab Sample ID: 890-1877-7
Matrix: Solid
Date Collected: 01/26/22 09:10
Date Received: 01/27/22 08:43
Sample Depth: 3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/28/22 07:30*	*01/28/22 21:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/22 19:05	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		01/31/22 12:03	02/02/22 03:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 03:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/31/22 12:03*	*02/02/22 03:33*	*1*
o-Terphenyl	*85*		*70 - 130*	*01/31/22 12:03*	*02/02/22 03:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**418**		25.2		mg/Kg			02/03/22 18:09	5

Client Sample ID: FS02

Lab Sample ID: 890-1877-8
Matrix: Solid
Date Collected: 01/26/22 09:15
Date Received: 01/27/22 08:43
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*01/28/22 07:30*	*01/28/22 21:40*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/28/22 07:30*	*01/28/22 21:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: FS02

Lab Sample ID: 890-1877-8
Matrix: Solid
Date Collected: 01/26/22 09:15
Date Received: 01/27/22 08:43
Sample Depth: 3

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		01/31/22 12:03	02/02/22 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*01/31/22 12:03*	*02/02/22 03:55*	*1*
o-Terphenyl	*90*		*70 - 130*	*01/31/22 12:03*	*02/02/22 03:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		5.00		mg/Kg			02/03/22 18:45	1

Client Sample ID: FS03

Lab Sample ID: 890-1877-9
Matrix: Solid
Date Collected: 01/26/22 09:20
Date Received: 01/27/22 08:43
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/28/22 07:30	01/28/22 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*14*	*S1-*	*70 - 130*	*01/28/22 07:30*	*01/28/22 22:08*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/28/22 07:30*	*01/28/22 22:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/22 19:05	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		01/31/22 15:06	02/02/22 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 15:06	02/02/22 16:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 15:06	02/02/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/31/22 15:06*	*02/02/22 16:33*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/31/22 15:06*	*02/02/22 16:33*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS03 Lab Sample ID: 890-1877-9

Date Collected: 01/26/22 09:20 **Matrix: Solid**
Date Received: 01/27/22 08:43
Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		25.0		mg/Kg			02/03/22 18:57	5

Client Sample ID: FS04 Lab Sample ID: 890-1877-10

Date Collected: 01/26/22 09:25 **Matrix: Solid**
Date Received: 01/27/22 08:43
Sample Depth: 3

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		01/28/22 12:00	01/28/22 22:36	1
Toluene	0.00348		0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/28/22 12:00	01/28/22 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/28/22 12:00	01/28/22 22:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*01/28/22 12:00*	*01/28/22 22:36*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/28/22 12:00*	*01/28/22 22:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/22 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	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		01/31/22 15:06	02/02/22 16:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 16:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/31/22 15:06*	*02/02/22 16:55*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/31/22 15:06*	*02/02/22 16:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.95		mg/Kg			02/03/22 19:09	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-10650-A-21-B MSD	Matrix Spike Duplicate	136 S1+	111
880-10650-A-21-D MS	Matrix Spike	127	101
880-10651-A-1-A MS	Matrix Spike	135 S1+	117
880-10651-A-1-B MSD	Matrix Spike Duplicate	117	113
890-1877-1	SW06	112	105
890-1877-2	SW07	128	122
890-1877-3	SW08	119	108
890-1877-4	SW09	112	103
890-1877-5	SW01	114	79
890-1877-6	SW02	116	97
890-1877-7	FS01	150 S1+	109
890-1877-8	FS02	155 S1+	112
890-1877-9	FS03	14 S1-	103
890-1877-10	FS04	145 S1+	104
LCS 880-17780/1-A	Lab Control Sample	100	96
LCS 880-17925/1-A	Lab Control Sample	127	112
LCSD 880-17925/2-A	Lab Control Sample Dup	131 S1+	107
MB 880-17780/5-A	Method Blank	100	89
MB 880-17873/5-A	Method Blank	86	99
MB 880-17924/5-A	Method Blank	106	104
MB 880-17925/5-A	Method Blank	88	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)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
LCSD 880-17780/2-A	Lab Control Sample Dup		

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-10650-A-21-G MS	Matrix Spike	57 S1-	62 S1-
880-10650-A-21-H MSD	Matrix Spike Duplicate	63 S1-	69 S1-
880-10698-A-1-C MS	Matrix Spike	66 S1-	64 S1-
880-10698-A-1-D MSD	Matrix Spike Duplicate	66 S1-	66 S1-
890-1877-1	SW06	84	96
890-1877-2	SW07	50 S1-	62 S1-
890-1877-3	SW08	54 S1-	68 S1-

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-1877-4	SW09	61 S1-	77								
890-1877-5	SW01	67 S1-	84								
890-1877-6	SW02	71	89								
890-1877-7	FS01	67 S1-	85								
890-1877-8	FS02	73	90								
890-1877-9	FS03	71	77								
890-1877-10	FS04	75	81								
890-1883-A-1-C MS	Matrix Spike	69 S1-	69 S1-								
890-1883-A-1-D MSD	Matrix Spike Duplicate	69 S1-	70								
LCS 880-18143/2-A	Lab Control Sample	90	96								
LCS 880-18150/2-A	Lab Control Sample	73	83								
LCS 880-18190/2-A	Lab Control Sample	94	96								
LCSD 880-18143/3-A	Lab Control Sample Dup	89	93								
LCSD 880-18150/3-A	Lab Control Sample Dup	74	82								
LCSD 880-18190/3-A	Lab Control Sample Dup	92	92								
MB 880-18143/1-A	Method Blank	82	97								
MB 880-18150/1-A	Method Blank	75	96								
MB 880-18190/1-A	Method Blank	74	82								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17780/5-A
Matrix: Solid
Analysis Batch: 17974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/28/22 07:30*	*01/29/22 09:13*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/28/22 07:30*	*01/29/22 09:13*	*1*

Lab Sample ID: LCS 880-17780/1-A
Matrix: Solid
Analysis Batch: 17974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17780

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08241		mg/Kg		82	70 - 130		
Toluene			0.100	0.07814		mg/Kg		78	70 - 130		
Ethylbenzene			0.100	0.07885		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene			0.200	0.1592		mg/Kg		80	70 - 130		
o-Xylene			0.100	0.07992		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-17780/2-A
Matrix: Solid
Analysis Batch: 17974

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17780

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08258		mg/Kg					
Toluene			0.100	0.07681		mg/Kg					
Ethylbenzene			0.100	0.07922		mg/Kg					
m-Xylene & p-Xylene			0.200	0.1589		mg/Kg					
o-Xylene			0.100	0.08096		mg/Kg					

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

Lab Sample ID: 880-10650-A-21-B MSD
Matrix: Solid
Analysis Batch: 17974

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.101	0.03187	F1	mg/Kg		30	70 - 130	34	35
Toluene	<0.00198	U F1	0.101	0.03177	F1	mg/Kg		31	70 - 130	29	35

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: 880-10650-A-21-B MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17974 **Prep Batch: 17780**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.00285	F1	0.101	0.03048	F1	mg/Kg		27	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.08105	F1	mg/Kg		40	70 - 130	11	35
o-Xylene	<0.00198	U F1	0.101	0.04490	F1	mg/Kg		44	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-10650-A-21-D MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17974 **Prep Batch: 17780**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F1	0.0994	0.02272	F1	mg/Kg		21	70 - 130
Toluene	<0.00198	U F1	0.0994	0.04247	F1	mg/Kg		43	70 - 130
Ethylbenzene	0.00285	F1	0.0994	0.03298	F1	mg/Kg		30	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.199	0.09046	F1	mg/Kg		46	70 - 130
o-Xylene	<0.00198	U F1	0.0994	0.05351	F1	mg/Kg		54	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-17873/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17866 **Prep Batch: 17873**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/22 08:57	01/28/22 04:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/27/22 08:57*	*01/28/22 04:03*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/27/22 08:57*	*01/28/22 04:03*	*1*

Lab Sample ID: MB 880-17924/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 17974 **Prep Batch: 17924**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 22:18	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

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

Lab Sample ID: MB 880-17924/5-A
Matrix: Solid
Analysis Batch: 17974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/28/22 07:30*	*01/28/22 22:18*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/28/22 07:30*	*01/28/22 22:18*	*1*

Lab Sample ID: MB 880-17925/5-A
Matrix: Solid
Analysis Batch: 17866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 20:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 20:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 20:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 20:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 20:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 20:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/28/22 07:30*	*01/28/22 20:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/28/22 07:30*	*01/28/22 20:16*	*1*

Lab Sample ID: LCS 880-17925/1-A
Matrix: Solid
Analysis Batch: 17866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1153		mg/Kg		115	70 - 130
Toluene	0.100	0.09498		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09455		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2078		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-17925/2-A
Matrix: Solid
Analysis Batch: 17866

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17925

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1157		mg/Kg		116	70 - 130	0	35
Toluene	0.100	0.09650		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09352		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2054		mg/Kg		103	70 - 130	1	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	0	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-10651-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17866 — **Prep Batch: 17925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0990	0.08894		mg/Kg		90	70 - 130
Toluene	<0.00199	U F1	0.0990	0.07379		mg/Kg		75	70 - 130
Ethylbenzene	<0.00199	U F1	0.0990	0.06806	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1464		mg/Kg		73	70 - 130
o-Xylene	<0.00199	U	0.0990	0.08143		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-10651-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17866 — **Prep Batch: 17925**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.07131		mg/Kg		71	70 - 130	22	35
Toluene	<0.00199	U F1	0.0998	0.06243	F1	mg/Kg		63	70 - 130	17	35
Ethylbenzene	<0.00199	U F1	0.0998	0.06749	F1	mg/Kg		68	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1469		mg/Kg		73	70 - 130	0	35
o-Xylene	<0.00199	U	0.0998	0.07642		mg/Kg		77	70 - 130	6	35

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

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

Lab Sample ID: MB 880-18143/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 18225 — **Prep Batch: 18143**

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		01/31/22 11:10	02/01/22 09:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 11:10	02/01/22 09:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 11:10	02/01/22 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/31/22 11:10	02/01/22 09:23	1
o-Terphenyl	97		70 - 130	01/31/22 11:10	02/01/22 09:23	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

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

Lab Sample ID: LCS 880-18143/2-A
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 18143

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	846.8		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1190		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-18143/3-A
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 18143

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	926.5		mg/Kg		93	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1204		mg/Kg		120	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 890-1883-A-1-C MS
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 18143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	851.8		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	970.6		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*69*	*S1-*	*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: 890-1883-A-1-D MSD
Matrix: Solid
Analysis Batch: 18225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 18143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	967.9		mg/Kg		95	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	999.6		mg/Kg		98	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*69*	*S1-*	*70 - 130*

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: 890-1883-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18225 **Prep Batch: 18143**

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

Lab Sample ID: MB 880-18150/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18223 **Prep Batch: 18150**

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		01/31/22 12:03	02/01/22 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/01/22 19:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/01/22 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	01/31/22 12:03	02/01/22 19:10	1
o-Terphenyl	96		70 - 130	01/31/22 12:03	02/01/22 19:10	1

Lab Sample ID: LCS 880-18150/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18223 **Prep Batch: 18150**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	774.4		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	919.4		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-18150/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18223 **Prep Batch: 18150**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	802.4		mg/Kg		80	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	942.2		mg/Kg		94	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

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

Lab Sample ID: 880-10650-A-21-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 18223 — **Prep Batch: 18150**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	796.0		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.1		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*57*	*S1-*	*70 - 130*
o-Terphenyl	*62*	*S1-*	*70 - 130*

Lab Sample ID: 880-10650-A-21-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 18223 — **Prep Batch: 18150**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	1038	F2	mg/Kg		99	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	975.4		mg/Kg		96	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*63*	*S1-*	*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-18190/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 18339 — **Prep Batch: 18190**

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		01/31/22 15:06	02/02/22 11:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 11:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/31/22 15:06*	*02/02/22 11:37*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/31/22 15:06*	*02/02/22 11:37*	*1*

Lab Sample ID: LCS 880-18190/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 18339 — **Prep Batch: 18190**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	870.1		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1097		mg/Kg		110	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: LCS 880-18190/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18339 **Prep Batch: 18190**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-18190/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18339 **Prep Batch: 18190**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	842.4		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1061		mg/Kg		106	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-10698-A-1-C MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18339 **Prep Batch: 18190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	776.3		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	887.8		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	66	S1-	70 - 130
o-Terphenyl	64	S1-	70 - 130

Lab Sample ID: 880-10698-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 18339 **Prep Batch: 18190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	750.2		mg/Kg		75	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.5		mg/Kg		91	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	66	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18029/1-A
Matrix: Solid
Analysis Batch: 18094

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			02/01/22 17:20	1

Lab Sample ID: LCS 880-18029/2-A
Matrix: Solid
Analysis Batch: 18094

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231.6		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-18029/3-A
Matrix: Solid
Analysis Batch: 18094

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	261.3		mg/Kg		105	90 - 110	12	20

Lab Sample ID: 890-1870-A-3-D MS
Matrix: Solid
Analysis Batch: 18094

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	76.3	F1	250	327.6		mg/Kg		101	90 - 110

Lab Sample ID: 890-1870-A-3-E MSD
Matrix: Solid
Analysis Batch: 18094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	76.3	F1	250	293.2	F1	mg/Kg		87	90 - 110	11	20

Lab Sample ID: 890-1876-A-6-C MS
Matrix: Solid
Analysis Batch: 18094

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2420	F1	1240	3559		mg/Kg		92	90 - 110

Lab Sample ID: 890-1876-A-6-D MSD
Matrix: Solid
Analysis Batch: 18094

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2420	F1	1240	3183	F1	mg/Kg		62	90 - 110	11	20

Lab Sample ID: MB 880-18214/1-A
Matrix: Solid
Analysis Batch: 18520

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/03/22 13:00	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-18214/2-A
Matrix: Solid
Analysis Batch: 18520

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	254.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-18214/3-A
Matrix: Solid
Analysis Batch: 18520

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	249.1		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 890-1877-5 MS
Matrix: Solid
Analysis Batch: 18520

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	470	F1	1240	1775		mg/Kg		105	90 - 110		

Lab Sample ID: 890-1877-5 MSD
Matrix: Solid
Analysis Batch: 18520

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	470	F1	1240	1895	F1	mg/Kg		115	90 - 110	7	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC VOA

Prep Batch: 17780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	5035	
890-1877-2	SW07	Total/NA	Solid	5035	
890-1877-3	SW08	Total/NA	Solid	5035	
890-1877-4	SW09	Total/NA	Solid	5035	
890-1877-5	SW01	Total/NA	Solid	5035	
890-1877-6	SW02	Total/NA	Solid	5035	
MB 880-17780/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17780/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17780/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10650-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-10650-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 17866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-7	FS01	Total/NA	Solid	8021B	17925
890-1877-8	FS02	Total/NA	Solid	8021B	17925
890-1877-9	FS03	Total/NA	Solid	8021B	17925
890-1877-10	FS04	Total/NA	Solid	8021B	17925
MB 880-17873/5-A	Method Blank	Total/NA	Solid	8021B	17873
MB 880-17925/5-A	Method Blank	Total/NA	Solid	8021B	17925
LCS 880-17925/1-A	Lab Control Sample	Total/NA	Solid	8021B	17925
LCSD 880-17925/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17925
880-10651-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	17925
880-10651-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17925

Prep Batch: 17873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17873/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17924/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-7	FS01	Total/NA	Solid	5035	
890-1877-8	FS02	Total/NA	Solid	5035	
890-1877-9	FS03	Total/NA	Solid	5035	
890-1877-10	FS04	Total/NA	Solid	5035	
MB 880-17925/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17925/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17925/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10651-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10651-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8021B	17780
890-1877-2	SW07	Total/NA	Solid	8021B	17780
890-1877-3	SW08	Total/NA	Solid	8021B	17780
890-1877-4	SW09	Total/NA	Solid	8021B	17780

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC VOA (Continued)

Analysis Batch: 17974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-5	SW01	Total/NA	Solid	8021B	17780
890-1877-6	SW02	Total/NA	Solid	8021B	17780
MB 880-17780/5-A	Method Blank	Total/NA	Solid	8021B	17780
MB 880-17924/5-A	Method Blank	Total/NA	Solid	8021B	17924
LCS 880-17780/1-A	Lab Control Sample	Total/NA	Solid	8021B	17780
LCSD 880-17780/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17780
880-10650-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17780
880-10650-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	17780

Analysis Batch: 18428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	Total BTEX	
890-1877-2	SW07	Total/NA	Solid	Total BTEX	
890-1877-3	SW08	Total/NA	Solid	Total BTEX	
890-1877-4	SW09	Total/NA	Solid	Total BTEX	
890-1877-5	SW01	Total/NA	Solid	Total BTEX	
890-1877-6	SW02	Total/NA	Solid	Total BTEX	
890-1877-7	FS01	Total/NA	Solid	Total BTEX	
890-1877-8	FS02	Total/NA	Solid	Total BTEX	
890-1877-9	FS03	Total/NA	Solid	Total BTEX	
890-1877-10	FS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8015NM Prep	
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 18150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-2	SW07	Total/NA	Solid	8015NM Prep	
890-1877-3	SW08	Total/NA	Solid	8015NM Prep	
890-1877-4	SW09	Total/NA	Solid	8015NM Prep	
890-1877-5	SW01	Total/NA	Solid	8015NM Prep	
890-1877-6	SW02	Total/NA	Solid	8015NM Prep	
890-1877-7	FS01	Total/NA	Solid	8015NM Prep	
890-1877-8	FS02	Total/NA	Solid	8015NM Prep	
MB 880-18150/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18150/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18150/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10650-A-21-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10650-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 18190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-9	FS03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC Semi VOA (Continued)

Prep Batch: 18190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-10	FS04	Total/NA	Solid	8015NM Prep	
MB 880-18190/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18190/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18190/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10698-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10698-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-2	SW07	Total/NA	Solid	8015B NM	18150
890-1877-3	SW08	Total/NA	Solid	8015B NM	18150
890-1877-4	SW09	Total/NA	Solid	8015B NM	18150
890-1877-5	SW01	Total/NA	Solid	8015B NM	18150
890-1877-6	SW02	Total/NA	Solid	8015B NM	18150
890-1877-7	FS01	Total/NA	Solid	8015B NM	18150
890-1877-8	FS02	Total/NA	Solid	8015B NM	18150
MB 880-18150/1-A	Method Blank	Total/NA	Solid	8015B NM	18150
LCS 880-18150/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18150
LCSD 880-18150/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18150
880-10650-A-21-G MS	Matrix Spike	Total/NA	Solid	8015B NM	18150
880-10650-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18150

Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8015B NM	18143
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015B NM	18143
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18143
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18143
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18143
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18143

Analysis Batch: 18327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8015 NM	
890-1877-2	SW07	Total/NA	Solid	8015 NM	
890-1877-3	SW08	Total/NA	Solid	8015 NM	
890-1877-4	SW09	Total/NA	Solid	8015 NM	
890-1877-5	SW01	Total/NA	Solid	8015 NM	
890-1877-6	SW02	Total/NA	Solid	8015 NM	
890-1877-7	FS01	Total/NA	Solid	8015 NM	
890-1877-8	FS02	Total/NA	Solid	8015 NM	
890-1877-9	FS03	Total/NA	Solid	8015 NM	
890-1877-10	FS04	Total/NA	Solid	8015 NM	
880-10637-A-115 MS	Matrix Spike	Total/NA	Solid	8015 NM	
880-10637-A-115 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015 NM	

Analysis Batch: 18339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-9	FS03	Total/NA	Solid	8015B NM	18190
890-1877-10	FS04	Total/NA	Solid	8015B NM	18190
MB 880-18190/1-A	Method Blank	Total/NA	Solid	8015B NM	18190

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

GC Semi VOA (Continued)

Analysis Batch: 18339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-18190/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18190
LCSD 880-18190/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18190
880-10698-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18190
880-10698-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18190

HPLC/IC

Leach Batch: 18029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Soluble	Solid	DI Leach	
890-1877-2	SW07	Soluble	Solid	DI Leach	
890-1877-3	SW08	Soluble	Solid	DI Leach	
MB 880-18029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1870-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1870-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1876-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1876-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Soluble	Solid	300.0	18029
890-1877-2	SW07	Soluble	Solid	300.0	18029
890-1877-3	SW08	Soluble	Solid	300.0	18029
MB 880-18029/1-A	Method Blank	Soluble	Solid	300.0	18029
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	300.0	18029
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18029
890-1870-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	18029
890-1870-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18029
890-1876-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	18029
890-1876-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18029

Leach Batch: 18214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-4	SW09	Soluble	Solid	DI Leach	
890-1877-5	SW01	Soluble	Solid	DI Leach	
890-1877-6	SW02	Soluble	Solid	DI Leach	
890-1877-7	FS01	Soluble	Solid	DI Leach	
890-1877-8	FS02	Soluble	Solid	DI Leach	
890-1877-9	FS03	Soluble	Solid	DI Leach	
890-1877-10	FS04	Soluble	Solid	DI Leach	
MB 880-18214/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18214/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18214/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1877-5 MS	SW01	Soluble	Solid	DI Leach	
890-1877-5 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 18520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-4	SW09	Soluble	Solid	300.0	18214

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

HPLC/IC (Continued)

Analysis Batch: 18520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-5	SW01	Soluble	Solid	300.0	18214
890-1877-6	SW02	Soluble	Solid	300.0	18214
890-1877-7	FS01	Soluble	Solid	300.0	18214
890-1877-8	FS02	Soluble	Solid	300.0	18214
890-1877-9	FS03	Soluble	Solid	300.0	18214
890-1877-10	FS04	Soluble	Solid	300.0	18214
MB 880-18214/1-A	Method Blank	Soluble	Solid	300.0	18214
LCS 880-18214/2-A	Lab Control Sample	Soluble	Solid	300.0	18214
LCSD 880-18214/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18214
890-1877-5 MS	SW01	Soluble	Solid	300.0	18214
890-1877-5 MSD	SW01	Soluble	Solid	300.0	18214

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: SW06 Lab Sample ID: 890-1877-1

Date Collected: 01/26/22 09:15 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 15:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 20:20	CH	XEN MID

Client Sample ID: SW07 Lab Sample ID: 890-1877-2

Date Collected: 01/26/22 13:30 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 15:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 01:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 20:27	CH	XEN MID

Client Sample ID: SW08 Lab Sample ID: 890-1877-3

Date Collected: 01/26/22 14:00 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 16:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 02:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:33	CH	XEN MID

Client Sample ID: SW09 Lab Sample ID: 890-1877-4

Date Collected: 01/26/22 15:45 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 16:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Client Sample ID: SW09
Date Collected: 01/26/22 15:45
Date Received: 01/27/22 08:43

Lab Sample ID: 890-1877-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 02:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 17:10	CH	XEN MID

Client Sample ID: SW01
Date Collected: 01/26/22 10:50
Date Received: 01/27/22 08:43

Lab Sample ID: 890-1877-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 16:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 02:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 17:22	CH	XEN MID

Client Sample ID: SW02
Date Collected: 01/26/22 10:55
Date Received: 01/27/22 08:43

Lab Sample ID: 890-1877-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 17:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 03:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 17:58	CH	XEN MID

Client Sample ID: FS01
Date Collected: 01/26/22 09:10
Date Received: 01/27/22 08:43

Lab Sample ID: 890-1877-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17925	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 21:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 03:33	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS01 Lab Sample ID: 890-1877-7

Date Collected: 01/26/22 09:10 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 18:09	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-1877-8

Date Collected: 01/26/22 09:15 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17925	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 21:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 18:45	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-1877-9

Date Collected: 01/26/22 09:20 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17925	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 22:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18190	01/31/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18339	02/02/22 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 18:57	CH	XEN MID

Client Sample ID: FS04 Lab Sample ID: 890-1877-10

Date Collected: 01/26/22 09:25 **Matrix: Solid**
Date Received: 01/27/22 08:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18190	01/31/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18339	02/02/22 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 19:09	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1877-1
Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1
SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1877-1	SW06	Solid	01/26/22 09:15	01/27/22 08:43	0 - 4.5
890-1877-2	SW07	Solid	01/26/22 13:30	01/27/22 08:43	0 - 4.5
890-1877-3	SW08	Solid	01/26/22 14:00	01/27/22 08:43	0 - 4.5
890-1877-4	SW09	Solid	01/26/22 15:45	01/27/22 08:43	0 - 4.5
890-1877-5	SW01	Solid	01/26/22 10:50	01/27/22 08:43	0 - 3
890-1877-6	SW02	Solid	01/26/22 10:55	01/27/22 08:43	0 - 3
890-1877-7	FS01	Solid	01/26/22 09:10	01/27/22 08:43	3
890-1877-8	FS02	Solid	01/26/22 09:15	01/27/22 08:43	3
890-1877-9	FS03	Solid	01/26/22 09:20	01/27/22 08:43	3
890-1877-10	FS04	Solid	01/26/22 09:25	01/27/22 08:43	3

Chain of Custody

XENCO LABORATORIES

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	WSP	Company Name	WPX Energy
Address:	3300 North A Street	Address	5315 Buena Vista Dr.
City, State ZIP:	Midland, TX 79705	City, State ZIP	Carlsbad, NM 88220
Phone	281-702-2329	Email	Anna.Byers@wsp.com,

Work Order Comments

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

Project Name:	East Pecos Federal 22 #003H	Turn Around	
Project Number:	31403360.003	Routine	☑
Incident ID:	nAPP2123361366	Rush:	
Sampler's Name:	Gilbert Moreno	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.4 | 1.4	Thermometer ID		
Received Intact:	(Yes) No	TNM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW06	S	1.26.22	9:15	0-4.5'	1	X	X	X
SW07	S	1.26.22	13:30	0-4.5'	1	X	X	X
SW08	S	1.26.22	14:00	0-4.5'	1	X	X	X
SW09	S	1.26.22	15:45	0-4.5'	1	X	X	X
SW01	S	1.26.22	10:50	0-3'	1	X	X	X
SW02	S	1.26.22	10:55	0-3'	1	X	X	X
FS01	S	1.26.22	9:10	3'	1	X	X	X
FS02	S	1.26.22	9:15	3'	1	X	X	X
FS03	S	1.26.22	9:20	3'	1	X	X	X
FS09	S	1.26.22	9:25	3'	1	X	X	X

Work Order Notes

CC 1061208201
AFE
API

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

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		1.2722 0845	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1877-1
SDG Number: 31403360.003

Login Number: 1877
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1877-1
SDG Number: 31403360.003

Login Number: 1877
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/28/22 12:32 PM

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

ATTACHMENT 5: SAMPLING NOTIFICATIONS

Moreno, Gilbert

From: Byers, Anna
Sent: Monday, March 7, 2022 1:13 PM
To: Moreno, Gilbert
Subject: Fwd: Updated WPX Site Activities for Week Ending January 14, 2022

Get Outlook for iOS

From: Byers, Anna
Sent: Tuesday, January 11, 2022 11:20:44 AM
To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>
Cc: Raley, Jim <Jim.Raley@dvn.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>
Subject: Updated WPX Site Activities for Week Ending January 14, 2022

Good morning,

WPX anticipates completing final sampling activities at the following sites during Jan 13th and 14th, 2022:

WSP

Site: RDX Federal Com 17 #026H
API: 30-015-42752
Incident ID: napp2134444397
Release Date: 12/07/2021

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident ID: nAPP2123361366

Release Date: 8/21/2021

Site: RDX FEDERAL 28 #012
API: 30-015-42110
Incident Number: nAPP2124531124
Release Date: 8/30/2021

WPX anticipates completing a liner inspection for the following site on 1/13/2022.

WSP

Site: East Pecos Federal Com 22 #014H
API: 30-015-43586
Incident Number: nAPP2200729617
Release Date: 1/03/2022

Moreno, Gilbert

From: Byers, Anna
Sent: Monday, March 7, 2022 1:13 PM
To: Moreno, Gilbert
Subject: Fwd: WPX Final Sampling Notification through Week Ending January 21, 2022

Get Outlook for iOS

From: Byers, Anna
Sent: Tuesday, January 18, 2022 4:14:51 PM
To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>
Cc: Hernandez, Joseph <Joe.Hernandez@wsp.com>; Raley, Jim <Jim.Raley@dvn.com>
Subject: WPX Final Sampling Notification through Week Ending January 21, 2022

Good morning,

WPX anticipates completing final sampling activities at the following sites during Jan 20th and 21th, 2022:

WSP

Site: RDX 17 Federal Com #006H

API: 30-015-39308

Incident ID: NRM2019548894

Release Date: 07/05/2020

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident ID: nAPP2123361366

Release Date: 8/21/2021

Thank you,

Anna Byers
Consultant, Geologist
Please note the new email address.

Moreno, Gilbert

From: Byers, Anna
Sent: Monday, March 7, 2022 1:13 PM
To: Moreno, Gilbert
Subject: Fwd: WPX Final Sampling Notification through Week Ending January 28, 2022

Get Outlook for iOS

From: Byers, Anna
Sent: Friday, January 21, 2022 11:16:39 AM
To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>
Cc: Raley, Jim <Jim.Raley@dvn.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>
Subject: WPX Final Sampling Notification through Week Ending January 28, 2022

Good morning,

WPX anticipates completing final sampling activities at the following sites during Jan 25th and 28th, 2022:

WSP

Site: RDX 17 Federal Com #006H

API: 30-015-39308

Incident ID: NRM2019548894

Release Date: 07/05/2020

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident ID: nAPP2123361366

Release Date: 8/21/2021

Thank you,

Anna Byers
Consultant, Geologist
Please note the new email address.

From:	Hamlet, Robert, EMNRD
To:	Raley, Jim
Cc:	Byers, Anna; Hernandez, Joseph; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD
Subject:	[EXTERNAL] (Extension Denied) - East Pecos 22-3H - nAPP2123361366
Date:	Tuesday, February 15, 2022 10:38:11 AM
Attachments:	image003.png

RE: Incident #**NAPP2123361366**

Jim,

An extension for this release has already been granted. Your request for another extension is **denied**. **Devon** will have 30 days to submit a remediation/closure plan to the payment portal. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Monday, February 14, 2022 3:21 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Byers, Anna <Anna.Byers@wsp.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: RE: [EXTERNAL] (Extension Approval) - East Pecos 22-3H - nAPP2123361366

Robert,

WPX Energy would like to request a 30 day extension to March 17th, 2022 to complete documentation for a remediation plan proposal.
Incident# nAPP2123361366 - (East Pecos 22-3H) - API: 30-015-42285. This spill occurred on August 21st, 2021 releasing (25bbls PW/ 10 Oil to pad surface)

We have completed a majority of the excavation and soil removal on this location. However, we would like additional time to complete documentation for an alternative remediation plan on a

portion of the excavation.

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220
C: (575)689-7597 | jim.raley@dvn.com

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Monday, November 8, 2021 11:17 AM
To: Raley, Jim <Jim.Raley@dvn.com>
Cc: Byers, Anna <Anna.Byers@wsp.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: [EXTERNAL] (Extension Approval) - East Pecos 22-3H - nAPP2123361366

RE: Incident #**NAPP2123361366**

Jim,

Your request for an extension to **February 17th, 2022** is approved.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Monday, November 8, 2021 10:30 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Cc: Byers, Anna <Anna.Byers@wsp.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>
Subject: [EXTERNAL] Extension Request - East Pecos 22-3H - nAPP2123361366

NMOCD District II Staff,

WPX Energy (Devon) would like to request a 90 day extension till **February 17th, 2022**, for (Incident# nAPP2123361366) at the East Pecos 22-3H (30-015-42285). The incident occurred on August 21st, 2021 and was a release of 35 bbls to pad surface, of which 27 bbls was recovered.

We have already excavated approx. 1' of soil from the pad surface and fully delineated the vertical and horizontal boundaries. We are seeking an extension so as to complete the excavation and submit a closure report .

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220
C: (575)689-7597 | jim.raley@dvn.com

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

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 89900
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	3/16/2022