

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	nAPP2112340262
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD) nAPP2112340262
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.02091 Longitude -103.96856
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Pecos Federal Com 22 #002H	Site Type: Production Facility
Date Release Discovered: 04/20/2021 @ 19:00	API# (if applicable): 30-015-40582

Unit Letter	Section	Township	Range	County
O	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): 1	Volume Recovered (bbls): 0.5
☒ Produced Water	Volume Released (bbls): 7	Volume Recovered (bbls): 3.5
	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:

Bolts sheared on the stuffing box at the wellhead causing 8bbl production fluids to be released onto the pad surface. No fluids were found off the pad surface. 4bbl total fluids were recovered.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%)$$

State of New Mexico
Oil Conservation Division

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

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Lynda Laumbach</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>05/03/2021</u>
email: <u>Lynda.Laumbach@wpenergy.com</u>	Telephone: <u>(575)725-1647</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>5/11/2021</u>

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

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

CONDITIONS

Action 26619

CONDITIONS OF APPROVAL

Operator: WPX ENERGY PERMIAN, LLC Devon Energy - Regulatory 333West Sheridan Ave. Oklahoma City, OK73102		OGRID: 246289	Action Number: 26619	Action Type: C-141
OCD Reviewer rmarcus		Condition None		

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	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.*

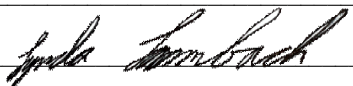
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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	nAPP2112340262
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Lynda Laumbach Title: Environmental Professional
Signature:  Date: 07/19/2021
email: Lynda.Laumbach@dvni.com Telephone: (575)725-1647

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2112340262
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Closure

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

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

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

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

Printed Name: Lynda Laumbach

Title: Environmental Professional

Signature: 

Date: 07/19/2021

email: lynda.laumbach@dvn.com

Telephone: 575-725-1647

OCD Only

Received by: Chad Hensley

Date: 08/20/2021

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

Closure Approved by: 

Date: 08/20/2021

Printed Name: Chad Hensley

Title: Environmental Specialist Advanced



WSP USA

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

July 15, 2021

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

**RE: Closure Request
WPX Energy Permian, LLC.
East Pecos Federal Com 22 #002H
Incident Number nAPP2112340262
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of WPX Energy, Inc. (WPX), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the East Pecos Federal Com 22 #002H (Site) located in Unit O, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of produced water and oil at the Site. Based on the excavation activities and results of the soil sampling events, WPX is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2112340262.

RELEASE BACKGROUND

On April 20, 2021, a stuffing box failure resulted in the release of approximately 7 barrels (bbls) of produced water and 1 bbl of crude oil onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 3.5 bbls of produced water and 0.5 bbls of crude oil were recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 3, 2021 and was subsequently assigned Incident Number nAPP2112340262.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallow groundwater. Depth to groundwater at the Site is estimated to be greater than 51 feet below ground surface (bgs) based on four nearby groundwater wells with reported data. (USGS) well 320112103574501, located approximately 0.32 miles east of the Site has a reported depth to



groundwater of 57.38 feet bgs. USGS well 320126103562801, approximately 0.35 miles to the northwest has a reported depth to groundwater of 68.74 feet bgs. USGS well 320126103562801, approximately 0.60 miles to the southeast has a reported depth to groundwater of 53.46 feet bgs. USGS well 320135103573301, approximately 0.65 miles to the northeast has a reported depth to groundwater of 80.88 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,985 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES

On April 26, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the incident description (release source and release location) with visual soil impacts and confirmed that the release impacted the well pad surface around the wellhead. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2.



DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On May 4, 2021, WSP conducted delineation and excavation activities simultaneously in order to define the extent of vertical and lateral impacts and remove residual soil impacts. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of eight potholes (PH01 through PH08) were advanced with mechanical equipment within and around the release extent to assess the lateral and vertical extent of impacted soil. A minimum of two soil samples were collected from each of the pothole locations: the sample with the highest observed field screening concentrations depth (approximately 0.5-foot bgs) and the greatest depth (approximately 1-foot bgs). The delineation soil sample locations are depicted on Figure 2.

The delineation soil samples were placed directly into a 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, LLC. (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2.

Based on surface staining and elevated PID field screenings anticipated to exceed the Closure Criteria from delineation soil sampling activities, excavation appeared warranted.

To direct excavation activities, WSP screened soil utilizing a calibrated PID and Hach® chloride QuanTab® test strips. Following removal of impacted soil, WSP collected 5-point composite soil samples to represent at most 200 square feet from the excavation floor and sidewalls. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.

Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 1-foot bgs. Composite soil samples FS01 through FS15 were collected from the floor of the excavation at depths ranging from approximately 0.5 feet to 1-foot bgs. The composite floor samples collected at approximately 0.5 feet bgs in the excavation included soil from adjacent sidewalls. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 3.

A total of approximately 59 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed at the R360 Facility in Hobbs, New Mexico under WPX approved manifests.

District II
Page 4**SOIL ANALYTICAL RESULTS**

Laboratory analytical results associated with final excavation confirmation samples indicated compliance with the Closure Criteria. Laboratory analytical results for the delineation soil samples collected from potholes PH04, PH05, PH07 and PH08 indicate immediate horizontal definition of the subject release. Laboratory analytical results for the confirmation excavation soil samples SW02 and FS12 demonstrate the representative edge of the subject release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted to address the release of produced water and crude oil at the Site. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Initial response efforts, which included recovery of standing fluids and the follow-up excavation of residual impacted soil has mitigated impacts at this Site. As such, WPX requests NFA for Incident Number nAPP2112340262

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

Sincerely,

WSP USA Inc.

A handwritten signature in cursive script that reads 'Anna Byers'.

Anna Byers
Consultant, Geologist

A handwritten signature in cursive script that reads 'Dan Moir'.

Dan Moir, P.G.
Lead Consultant, Geologist



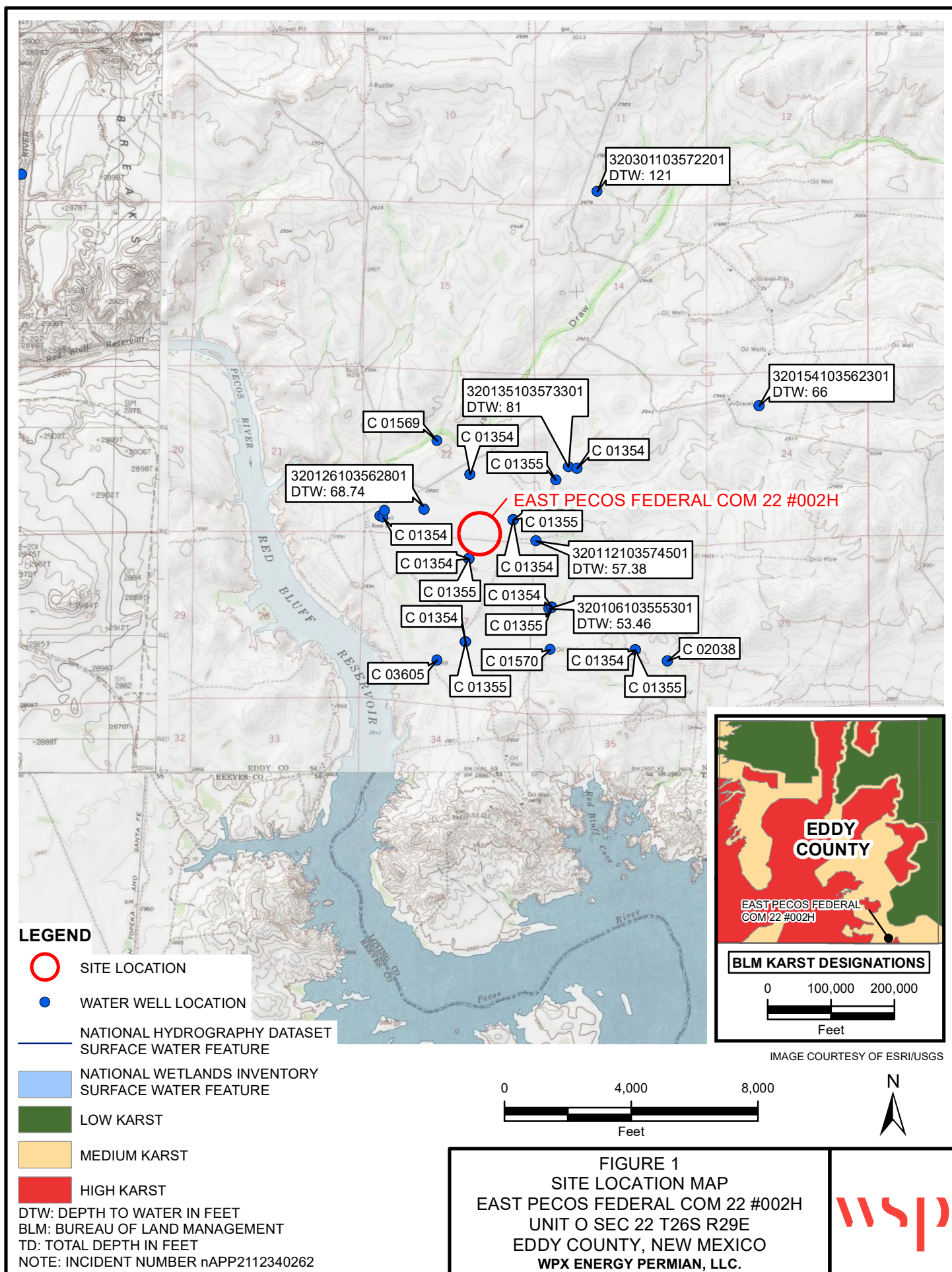
District II
Page 5

cc: Lynda Laumbach, Devon
Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
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

FIGURES



P:\WPX-Devon\GIS\MXD\034821016_EAST PECOS FEDERAL COM 22 #002H\034821016_FIG01_SL_RECEPTOR_2021.mxd

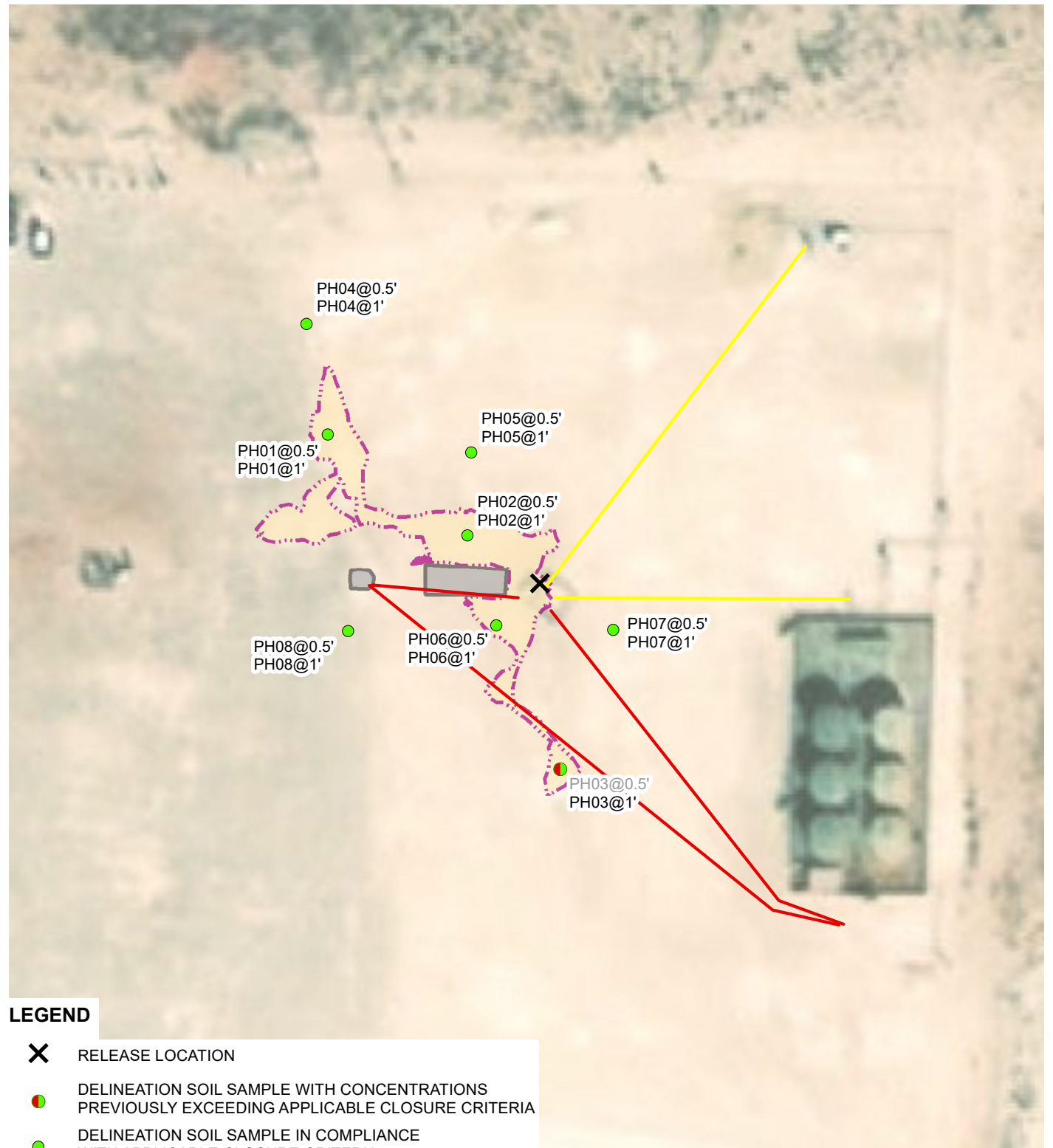


IMAGE COURTESY OF ESRI

LEGEND

- X** RELEASE LOCATION
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

— ELECTRIC LINE

— GAS LINE

— INFRASTRUCTURE

— RELEASE EXTENT

NOTE: INCIDENT NUMBER nAPP2112340262
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

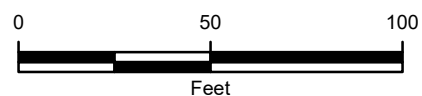
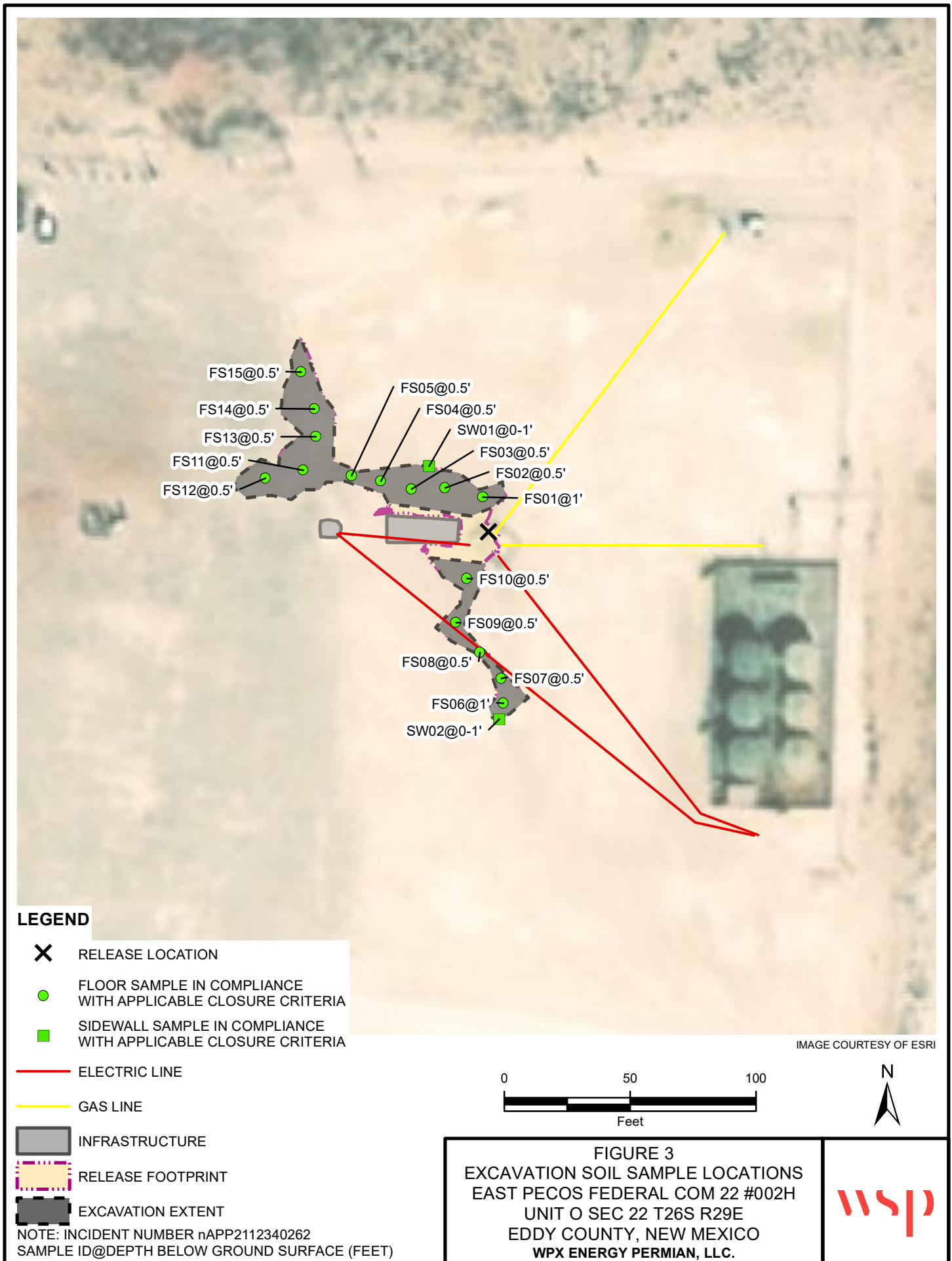


FIGURE 2
 DELINEATION SOIL SAMPLE LOCATIONS
 EAST PECOS FEDERAL COM 22 #002H
 UNIT O SEC 22 T26S R29E
 EDDY COUNTY, NEW MEXICO
 WPX ENERGY PERMIAN, LLC.





P:\WPX-Devon\GIS\MXD\034821016_EAST PECOS FEDERAL COM 22 #002H\034821016_FIG03_EXCAVATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
East Pecos Federal Com 22 #002H
Incident Number nAPP2112340262
WPX Energy Permian, LLC.
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	1,000	2,500	10,000
Delineation Samples										
PH01	05/04/2021	0.5	<0.00201	<0.00402	57.8	<50.0	<50.0	57.8	57.8	107
PH01	05/04/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	106
PH02	05/04/2021	0.5	<0.00198	<0.00397	959	<49.9	<49.9	959	959	3,460
PH02	05/04/2021	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	605
PH03	05/04/2021	0.5	<0.00198	0.0419	1870	56.4	282	1,930	2,210	712
PH03	05/04/2021	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	92.4
PH04	05/04/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	59.4
PH04	05/04/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	38.9
PH05	05/04/2021	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	64.0
PH05	05/04/2021	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	190
PH06	05/04/2021	0.5	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	1,030
PH06	05/04/2021	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	899
PH07	05/04/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	182
PH07	05/04/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	178
PH08	05/04/2021	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	38.8
PH08	05/04/2021	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	54.6

Table 1

Soil Analytical Results
East Pecos Federal Com 22 #002H
Incident Number nAPP2112340262
WPX Energy Permian, LLC.
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	1,000	2,500	10,000
Excavation Floor Samples										
FS01	05/04/2021	1	<0.00201	<0.00402	70.1	<50.0	<50.0	70.1	70.1	666
FS02	05/04/2021	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	557
FS03	05/04/2021	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	633
FS04	05/04/2021	0.5	<0.00198	<0.00397	72.8	<49.9	<49.9	72.8	72.8	628
FS05	05/04/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	291
FS06	05/04/2021	1	<0.00202	<0.00404	56.9	<49.9	<49.9	56.9	56.9	452
FS07	05/04/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	99.3
FS08	05/04/2021	0.5	<0.00198	<0.00397	51.4	<50.0	<50.0	51.4	51.4	1,920
FS09	05/04/2021	0.5	<0.00198	<0.00397	54.8	<49.9	<49.9	54.8	54.8	2,060
FS10	05/04/2021	0.5	0.00201	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,370
FS11	05/04/2021	0.5	<0.00200	<0.00399	132	<49.9	<49.9	132	132	1,250
FS12	05/04/2021	0.5	<0.00200	<0.00399	75.7	<49.8	<49.8	75.7	75.7	128
FS13	05/04/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,090
FS14	05/04/2021	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	2,050
FS15	05/04/2021	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	3,160

Table 1

Soil Analytical Results
East Pecos Federal Com 22 #002H
Incident Number nAPP2112340262
WPX Energy Permian, LLC.
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	1,000	2,500	10,000
Excavation Sidewall Samples										
SW01	05/04/2021	0 - 1	<0.00200	<0.00401	121	<50.0	<50.0	121	121	1,300
SW02	05/04/2021	0 - 1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	51.3

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 - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

ATTACHMENT 1: REFERENCED WELL RECORDS



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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320112103574501

Minimum number of levels = 1
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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.

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320126103562801

Minimum number of levels = 1

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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	1	Z		A
1958-08-18			D	62611	2820.78	NAVD88	1	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.

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Agency code = usgs
site_no list =

- 320106103555301

Minimum number of levels = 1
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USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico
Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83
Land-surface elevation 2,883.00 feet above NGVD29
The depth of the well is 140 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
1983-01-26			D	62610		2828.70	NGVD29	1	Z		A
1983-01-26			D	62611		2830.22	NAVD88	1	Z		A
1983-01-26			D	72019	54.30			1	Z		A
1987-10-14			D	62610		2847.71	NGVD29	1	Z		A
1987-10-14			D	62611		2849.23	NAVD88	1	Z		A
1987-10-14			D	72019	35.29			1	Z		A
1992-11-04			D	62610		2838.94	NGVD29	1	S		A
1992-11-04			D	62611		2840.46	NAVD88	1	S		A
1992-11-04			D	72019	44.06			1	S		A
1998-01-28			D	62610		2829.99	NGVD29	1	S		A
1998-01-28			D	62611		2831.51	NAVD88	1	S		A
1998-01-28			D	72019	53.01			1	S		A
2003-01-27			D	62610		2827.07	NGVD29	1	S	USGS	S
2003-01-27			D	62611		2828.59	NAVD88	1	S	USGS	S
2003-01-27			D	72019	55.93			1	S	USGS	S
2013-01-09	19:00 UTC		m	62610		2825.19	NGVD29	1	S	USGS	S
2013-01-09	19:00 UTC		m	62611		2826.71	NAVD88	1	S	USGS	S
2013-01-09	19:00 UTC		m	72019	57.81			1	S	USGS	S
2021-02-24	21:10 UTC		m	62610		2829.54	NGVD29	1	S	USGS	S
2021-02-24	21:10 UTC		m	62611		2831.06	NAVD88	1	S	USGS	S
2021-02-24	21:10 UTC		m	72019	53.46			1	S	USGS	S

Explanation

7/14/2021

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs
site_no list =

- 320135103573301

Minimum number of levels = 1
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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.

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ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		PH Name: PH01	Date: 5/4/2021					
		Site Name: East Pecos Federal Com 22 #002H						
		Incident Number: nAPP2112340262						
		WSP Job Number: TE034821016						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.021075, -103.968792		Field Screening: Chloride, PID	Logged By: Fatima Smith Hole Diameter: N/A Method: Backhoe Total Depth: 1 foot bgs					
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Moist	201	12.2	Yes	PH01	0.5	0	cche	Compacted pad surface caliche
Dry	<168	5.6	No	PH01	1	1	cche	Compacted pad surface caliche
Total Depth								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		PH Name: PH02	Date: 5/4/2021					
		Site Name: East Pecos Federal Com 22 #002H						
		Incident Number: nAPP2112340262						
		WSP Job Number: TE034821016						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.020976, -103.968632		Field Screening: Chloride, PID	Logged By: Fatima Smith Hole Diameter: N/A Method: Backhoe Total Depth: 1 foot bgs					
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Moist	20,238	54.7	Yes	PH02	0.5	0.5	cche	Compacted pad surface caliche
Dry	408	3.5	No	PH02	1	1	cche	Compacted pad surface caliche
Total Depth								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		PH Name: PH03		Date: 5/4/2021				
		Site Name: East Pecos Federal Com 22 #002H						
		Incident Number: nAPP2112340262						
		WSP Job Number: TE034821016						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.020752, -103.968527		Field Screening: Chloride, PID		Hole Diameter: N/A				
				Total Depth: 1 foot bgs				
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Moist	576	208.2	Yes	PH03	0.5	0.5	cche	Compacted pad surface caliche
Dry	<168	46.6	No	PH03	1	1	cche	Compacted pad surface caliche
Total Depth								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		PH Name: PH04	Date: 5/4/2021					
		Site Name: East Pecos Federal Com 22 #002H						
		Incident Number: nAPP2112340262						
		WSP Job Number: TE034821016						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.021182, -103.968816		Field Screening: Chloride, PID	Logged By: Fatima Smith Hole Diameter: N/A Method: Backhoe Total Depth: 1 foot bgs					
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
Dry	<168	1.5	No	PH04	0.5	0.5	cche	Compacted pad surface caliche
Dry	<168	7.4	No	PH04	1	1	cche	Compacted pad surface caliche
Total Depth								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220						PH Name: PH05		Date: 5/4/2021	
						Site Name: East Pecos Federal Com 22 #002H			
						Incident Number: nAPP2112340262			
						WSP Job Number: TE034821016			
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.021055, -103.968627				Field Screening: Chloride, PID		Logged By: Fatima Smith		Method: Backhoe	
						Hole Diameter: N/A		Total Depth: 1 foot bgs	
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0			
Dry	576	0.8	No	PH05	0.5	0.5	cche	Compacted pad surface caliche	
Dry	576	0.7	No	PH05	1	1	cche	Compacted pad surface caliche	
Total Depth									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		PH Name: PH06	Date: 5/4/2021					
		Site Name: East Pecos Federal Com 22 #002H						
		Incident Number: nAPP2112340262						
		WSP Job Number: TE034821016						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.020888, -103.968599		Field Screening: Chloride, PID	Logged By: Fatima Smith Hole Diameter: N/A Method: Backhoe Total Depth: 1 foot bgs					
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Moist	576	0.1	No	PH06	0.5	0.5	cche	Compacted pad surface caliche
Dry	576	0.6	No	PH06	1	1	cche	Compacted pad surface caliche
Total Depth								

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220						PH Name: PH07		Date: 5/4/2021	
						Site Name: East Pecos Federal Com 22 #002H			
						Incident Number: nAPP2112340262			
						WSP Job Number: TE034821016			
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.020884, -103.968467				Field Screening: Chloride, PID		Logged By: Fatima Smith		Method: Backhoe	
						Hole Diameter: N/A		Total Depth: 1 foot bgs	
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0			
Dry	<168	0.5	No	PH07	0.5	0.5	cche	Compacted pad surface caliche	
Dry	168	0.7	No	PH07	1	1	cche	Compacted pad surface caliche	
Total Depth									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220						PH Name: PH08		Date: 5/4/2021	
						Site Name: East Pecos Federal Com 22 #002H			
						Incident Number: nAPP2112340262			
						WSP Job Number: TE034821016			
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.020884, -103.968769				Field Screening: Chloride, PID		Logged By: Fatima Smith		Method: Backhoe	
						Hole Diameter: N/A		Total Depth: 1 foot bgs	
Comments: Chloride field screening conducted as 1:4 dilution of soil to distilled water: values do not include correction factor.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0			
Dry	<168	0.7	No	PH08	0.5	0.5	cche	Compacted pad surface caliche	
Dry	<168	0.8	No	PH08	1	1	cche	Compacted pad surface caliche	
Total Depth									

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	East Pecos Federal Com 22 #002H Rural Eddy County, New Mexico	TE034821016
-----------------------------	--	-------------

Photo No.	Date	
1	May 4, 2021	
Southwest view of the Site during excavation activities.		

Photo No.	Date	
2	May 4, 2021	
West view of the Site during excavation activities.		



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	East Pecos Federal Com 22 #002H Rural Eddy County, New Mexico	TE034821016
-----------------------------	--	-------------

Photo No.	Date	
3	May 4, 2021	
Western view of the northern excavation.		 A photograph showing a wide, flat, sandy area under a clear blue sky. In the background, there are several large, cylindrical storage tanks and some industrial structures. A yellow excavator is visible on the left side of the frame, and a person is standing in the distance near the tanks.

Photo No.	Date	
4	May 4, 2021	
Southeast view of the excavation.		 A photograph showing a sandy, flat area with tire tracks. In the background, there are several large, cylindrical storage tanks and some industrial structures. A white pickup truck is parked on the left side of the frame.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	East Pecos Federal Com 22 #002H Rural Eddy County, New Mexico	TE034821016
-----------------------------	--	-------------

Photo No.	Date	
7	May 4, 2021	
Eastern view of the northern excavation extent		 A photograph showing a large, flat, sandy area with a large pile of dirt in the center. In the background, there is a small structure and a vehicle. The sky is clear and blue.

Photo No.	Date	
8	May 4, 2021	
Northwestern view of the southern excavation extent		 A photograph showing a large, flat, sandy area with a large pile of dirt in the center. In the background, there is a small structure and a vehicle. The sky is clear and blue.

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-640-1

Laboratory Sample Delivery Group: TE034821016

Client Project/Site: East Pecos 22-2H

Revision: 1

For:

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

Attn: Joseph Hernandez

A handwritten signature in black ink, appearing to read "JKramer".

Authorized for release by:
7/15/2021 1:05:04 PM

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

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

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

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Laboratory Job ID: 890-640-1
SDG: TE034821016

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Glossary

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Job ID: 890-640-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-640-1

Receipt

The samples were received on 5/6/2021 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-640-1), FS02 (890-640-2), FS03 (890-640-3), FS04 (890-640-4), FS05 (890-640-5), FS06 (890-640-6), FS07 (890-640-7), FS08 (890-640-8), FS09 (890-640-9), FS10 (890-640-10), FS11 (890-640-11), FS12 (890-640-12), FS13 (890-640-13), FS14 (890-640-14), FS15 (890-640-15), SW01 (890-640-16), SW02 (890-640-17), PH01 (890-640-18), PH01 (890-640-19), PH02 (890-640-20), PH02 (890-640-21), PH03 (890-640-22), PH03 (890-640-23), PH04 (890-640-24), PH04 (890-640-25), PH08 (890-640-26), PH08 (890-640-27), PH07 (890-640-28) and PH07 (890-640-29).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS15 (890-640-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS01

Lab Sample ID: 890-640-1

Date Collected: 05/04/21 11:20

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/21 12:00	05/07/21 22:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/21 12:00	05/07/21 22:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/21 12:00	05/07/21 22:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/21 12:00	05/07/21 22:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/21 12:00	05/07/21 22:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/21 12:00	05/07/21 22:25	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/07/21 12:00	05/07/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/07/21 12:00	05/07/21 22:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/07/21 12:00	05/07/21 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0		mg/Kg		05/07/21 13:41	05/07/21 21:41	1
Diesel Range Organics (Over C10-C28)	70.1	F1	50.0		mg/Kg		05/07/21 13:41	05/07/21 21:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 21:41	1
Total TPH	70.1	F1	50.0		mg/Kg		05/07/21 13:41	05/07/21 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	05/07/21 13:41	05/07/21 21:41	1
o-Terphenyl	101		70 - 130	05/07/21 13:41	05/07/21 21:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	666		5.03		mg/Kg			05/10/21 10:09	1

Client Sample ID: FS02

Lab Sample ID: 890-640-2

Date Collected: 05/04/21 11:23

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 22:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 22:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 22:45	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/07/21 12:00	05/07/21 22:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/07/21 12:00	05/07/21 22:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS02

Lab Sample ID: 890-640-2

Date Collected: 05/04/21 11:23

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/07/21 22:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/07/21 22:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/07/21 22:43	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/07/21 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/07/21 13:41	05/07/21 22:43	1
o-Terphenyl	104		70 - 130	05/07/21 13:41	05/07/21 22:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	557		5.03		mg/Kg			05/10/21 10:15	1

Client Sample ID: FS03

Lab Sample ID: 890-640-3

Date Collected: 05/04/21 11:25

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 12:00	05/07/21 23:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 12:00	05/07/21 23:06	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 12:00	05/07/21 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/07/21 12:00	05/07/21 23:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/07/21 12:00	05/07/21 23:06	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		05/07/21 13:41	05/07/21 23:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 23:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 23:04	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/07/21 13:41	05/07/21 23:04	1
o-Terphenyl	104		70 - 130	05/07/21 13:41	05/07/21 23:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	633	F1	5.05		mg/Kg			05/10/21 10:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS04

Lab Sample ID: 890-640-4

Date Collected: 05/04/21 11:28

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 12:00	05/07/21 23:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 12:00	05/07/21 23:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 12:00	05/07/21 23:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/07/21 12:00	05/07/21 23:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 12:00	05/07/21 23:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/07/21 12:00	05/07/21 23:26	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/07/21 12:00	05/07/21 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/07/21 12:00	05/07/21 23:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/07/21 12:00	05/07/21 23:26	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		05/07/21 13:41	05/07/21 23:25	1
Diesel Range Organics (Over C10-C28)	72.8		49.9		mg/Kg		05/07/21 13:41	05/07/21 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/07/21 23:25	1
Total TPH	72.8		49.9		mg/Kg		05/07/21 13:41	05/07/21 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130	05/07/21 13:41	05/07/21 23:25	1
o-Terphenyl	112		70 - 130	05/07/21 13:41	05/07/21 23:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	628		5.04		mg/Kg			05/10/21 10:36	1

Client Sample ID: FS05

Lab Sample ID: 890-640-5

Date Collected: 05/04/21 11:30

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 23:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 23:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 23:47	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/07/21 12:00	05/07/21 23:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/07/21 12:00	05/07/21 23:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS05

Lab Sample ID: 890-640-5

Date Collected: 05/04/21 11:30

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/07/21 23:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/07/21 23:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/07/21 23:45	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/07/21 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/07/21 13:41	05/07/21 23:45	1
o-Terphenyl	110		70 - 130	05/07/21 13:41	05/07/21 23:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.98		mg/Kg			05/10/21 10:42	1

Client Sample ID: FS06

Lab Sample ID: 890-640-6

Date Collected: 05/04/21 12:28

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/08/21 00:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/08/21 00:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/08/21 00:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/21 12:00	05/08/21 00:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/08/21 00:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/21 12:00	05/08/21 00:07	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/07/21 12:00	05/08/21 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/07/21 12:00	05/08/21 00:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/07/21 12:00	05/08/21 00:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 00:06	1
Diesel Range Organics (Over C10-C28)	56.9		49.9		mg/Kg		05/07/21 13:41	05/08/21 00:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 00:06	1
Total TPH	56.9		49.9		mg/Kg		05/07/21 13:41	05/08/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/07/21 13:41	05/08/21 00:06	1
o-Terphenyl	106		70 - 130	05/07/21 13:41	05/08/21 00:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	452		4.98		mg/Kg			05/10/21 10:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS07

Lab Sample ID: 890-640-7

Date Collected: 05/04/21 12:38

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 12:00	05/08/21 00:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 12:00	05/08/21 00:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 12:00	05/08/21 00:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 12:00	05/08/21 00:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 12:00	05/08/21 00:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 12:00	05/08/21 00:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 12:00	05/08/21 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	05/07/21 12:00	05/08/21 00:28	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/07/21 12:00	05/08/21 00:28	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	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 00:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 00:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 00:27	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/07/21 13:41	05/08/21 00:27	1
o-Terphenyl	112		70 - 130	05/07/21 13:41	05/08/21 00:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.3		5.00		mg/Kg			05/10/21 11:03	1

Client Sample ID: FS08

Lab Sample ID: 890-640-8

Date Collected: 05/04/21 11:53

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 17:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:01	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 17:01	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/07/21 11:21	05/07/21 17:01	1
1,4-Difluorobenzene (Surr)	114		70 - 130	05/07/21 11:21	05/07/21 17:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS08

Lab Sample ID: 890-640-8

Date Collected: 05/04/21 11:53

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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		05/07/21 13:41	05/08/21 00:47	1
Diesel Range Organics (Over C10-C28)	51.4		50.0		mg/Kg		05/07/21 13:41	05/08/21 00:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 00:47	1
Total TPH	51.4		50.0		mg/Kg		05/07/21 13:41	05/08/21 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/07/21 13:41	05/08/21 00:47	1
o-Terphenyl	106		70 - 130	05/07/21 13:41	05/08/21 00:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1920		24.8		mg/Kg			05/10/21 11:08	5

Client Sample ID: FS09

Lab Sample ID: 890-640-9

Date Collected: 05/04/21 12:40

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 17:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 17:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 17:22	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/07/21 11:21	05/07/21 17:22	1
1,4-Difluorobenzene (Surr)	122		70 - 130	05/07/21 11:21	05/07/21 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 01:08	1
Diesel Range Organics (Over C10-C28)	54.8		49.9		mg/Kg		05/07/21 13:41	05/08/21 01:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 01:08	1
Total TPH	54.8		49.9		mg/Kg		05/07/21 13:41	05/08/21 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/07/21 13:41	05/08/21 01:08	1
o-Terphenyl	107		70 - 130	05/07/21 13:41	05/08/21 01:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2060		24.8		mg/Kg			05/10/21 11:14	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS10

Lab Sample ID: 890-640-10

Date Collected: 05/04/21 11:57

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00201		0.00200		mg/Kg		05/07/21 11:21	05/07/21 17:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 17:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 17:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 17:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 17:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 17:43	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	05/07/21 11:21	05/07/21 17:43	1
1,4-Difluorobenzene (Surr)	143	S1+	70 - 130	05/07/21 11:21	05/07/21 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 01:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 01:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 01:29	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/07/21 13:41	05/08/21 01:29	1
o-Terphenyl	109		70 - 130	05/07/21 13:41	05/08/21 01:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3370		25.2		mg/Kg			05/10/21 11:19	5

Client Sample ID: FS11

Lab Sample ID: 890-640-11

Date Collected: 05/04/21 12:50

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 18:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 18:04	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/07/21 11:21	05/07/21 18:04	1
1,4-Difluorobenzene (Surr)	114		70 - 130	05/07/21 11:21	05/07/21 18:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS11

Lab Sample ID: 890-640-11

Date Collected: 05/04/21 12:50

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 02:10	1
Diesel Range Organics (Over C10-C28)	132		49.9		mg/Kg		05/07/21 13:41	05/08/21 02:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 02:10	1
Total TPH	132		49.9		mg/Kg		05/07/21 13:41	05/08/21 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	05/07/21 13:41	05/08/21 02:10	1
o-Terphenyl	102		70 - 130	05/07/21 13:41	05/08/21 02:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		25.3		mg/Kg			05/10/21 11:25	5

Client Sample ID: FS12

Lab Sample ID: 890-640-12

Date Collected: 05/04/21 12:52

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 18:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 18:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 18:24	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 11:21	05/07/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/07/21 11:21	05/07/21 18:24	1
1,4-Difluorobenzene (Surr)	124		70 - 130	05/07/21 11:21	05/07/21 18:24	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	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 02:31	1
Diesel Range Organics (Over C10-C28)	75.7		49.8		mg/Kg		05/07/21 13:41	05/08/21 02:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 02:31	1
Total TPH	75.7		49.8		mg/Kg		05/07/21 13:41	05/08/21 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/07/21 13:41	05/08/21 02:31	1
o-Terphenyl	108		70 - 130	05/07/21 13:41	05/08/21 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.00		mg/Kg			05/10/21 11:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS13

Lab Sample ID: 890-640-13

Date Collected: 05/04/21 12:53

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 18:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 18:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 18:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 18:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 18:45	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/07/21 11:21	05/07/21 18:45	1
1,4-Difluorobenzene (Surr)	121		70 - 130	05/07/21 11:21	05/07/21 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 02:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 02:51	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/07/21 13:41	05/08/21 02:51	1
o-Terphenyl	110		70 - 130	05/07/21 13:41	05/08/21 02:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		25.1		mg/Kg			05/10/21 12:13	5

Client Sample ID: FS14

Lab Sample ID: 890-640-14

Date Collected: 05/04/21 12:55

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 19:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 19:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 19:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 19:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 19:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 19:06	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/07/21 11:21	05/07/21 19:06	1
1,4-Difluorobenzene (Surr)	115		70 - 130	05/07/21 11:21	05/07/21 19:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS14

Lab Sample ID: 890-640-14

Date Collected: 05/04/21 12:55

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:12	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/07/21 13:41	05/08/21 03:12	1
o-Terphenyl	102		70 - 130	05/07/21 13:41	05/08/21 03:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		24.9		mg/Kg			05/10/21 12:29	5

Client Sample ID: FS15

Lab Sample ID: 890-640-15

Date Collected: 05/04/21 12:58

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/21 11:21	05/07/21 19:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/21 11:21	05/07/21 19:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/21 11:21	05/07/21 19:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/21 11:21	05/07/21 19:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/21 11:21	05/07/21 19:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/21 11:21	05/07/21 19:26	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/07/21 11:21	05/07/21 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	3	S1-	70 - 130	05/07/21 11:21	05/07/21 19:26	1
1,4-Difluorobenzene (Surr)	3	S1-	70 - 130	05/07/21 11:21	05/07/21 19:26	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		05/07/21 13:41	05/08/21 03:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:32	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/07/21 13:41	05/08/21 03:32	1
o-Terphenyl	109		70 - 130	05/07/21 13:41	05/08/21 03:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3160		24.8		mg/Kg			05/10/21 12:35	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: SW01

Lab Sample ID: 890-640-16

Date Collected: 05/04/21 13:00

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: 1 - 0

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		05/07/21 11:21	05/07/21 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 19:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/21 11:21	05/07/21 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 19:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/21 11:21	05/07/21 19:47	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/07/21 11:21	05/07/21 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/07/21 11:21	05/07/21 19:47	1
1,4-Difluorobenzene (Surr)	119		70 - 130	05/07/21 11:21	05/07/21 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 03:53	1
Diesel Range Organics (Over C10-C28)	121		50.0		mg/Kg		05/07/21 13:41	05/08/21 03:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 03:53	1
Total TPH	121		50.0		mg/Kg		05/07/21 13:41	05/08/21 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/07/21 13:41	05/08/21 03:53	1
o-Terphenyl	103		70 - 130	05/07/21 13:41	05/08/21 03:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		25.2		mg/Kg			05/10/21 12:40	5

Client Sample ID: SW02

Lab Sample ID: 890-640-17

Date Collected: 05/04/21 13:02

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: 1 - 0

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		05/07/21 11:21	05/07/21 20:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 20:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 20:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 20:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 20:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 20:08	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/07/21 11:21	05/07/21 20:08	1
1,4-Difluorobenzene (Surr)	119		70 - 130	05/07/21 11:21	05/07/21 20:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: SW02

Lab Sample ID: 890-640-17

Date Collected: 05/04/21 13:02

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: 1 - 0

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		05/07/21 13:41	05/08/21 04:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 04:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 04:14	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/07/21 13:41	05/08/21 04:14	1
o-Terphenyl	111		70 - 130	05/07/21 13:41	05/08/21 04:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3		5.03		mg/Kg			05/10/21 12:45	1

Client Sample ID: PH01

Lab Sample ID: 890-640-18

Date Collected: 05/04/21 09:33

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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		05/07/21 11:21	05/07/21 21:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/07/21 21:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/07/21 21:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/21 11:21	05/07/21 21:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/07/21 21:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/21 11:21	05/07/21 21:32	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/07/21 11:21	05/07/21 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	05/07/21 11:21	05/07/21 21:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130	05/07/21 11:21	05/07/21 21:32	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		05/07/21 13:41	05/08/21 04:34	1
Diesel Range Organics (Over C10-C28)	57.8		50.0		mg/Kg		05/07/21 13:41	05/08/21 04:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/08/21 04:34	1
Total TPH	57.8		50.0		mg/Kg		05/07/21 13:41	05/08/21 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/07/21 13:41	05/08/21 04:34	1
o-Terphenyl	114		70 - 130	05/07/21 13:41	05/08/21 04:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		5.05		mg/Kg			05/10/21 13:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH01

Lab Sample ID: 890-640-19

Date Collected: 05/04/21 09:18

Matrix: Solid

Date Received: 05/06/21 12:15

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		05/07/21 11:21	05/07/21 21:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 21:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 21:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/07/21 21:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 21:52	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/07/21 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/07/21 11:21	05/07/21 21:52	1
1,4-Difluorobenzene (Surr)	119		70 - 130	05/07/21 11:21	05/07/21 21:52	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		05/07/21 13:41	05/08/21 04:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 04:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 04:55	1
Total TPH	<49.8	U	49.8		mg/Kg		05/07/21 13:41	05/08/21 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/07/21 13:41	05/08/21 04:55	1
o-Terphenyl	112		70 - 130	05/07/21 13:41	05/08/21 04:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		5.02		mg/Kg			05/10/21 13:07	1

Client Sample ID: PH02

Lab Sample ID: 890-640-20

Date Collected: 05/04/21 09:35

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 22:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 22:13	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/07/21 11:21	05/07/21 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/07/21 11:21	05/07/21 22:13	1
1,4-Difluorobenzene (Surr)	112		70 - 130	05/07/21 11:21	05/07/21 22:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH02

Lab Sample ID: 890-640-20

Date Collected: 05/04/21 09:35

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 05:16	1
Diesel Range Organics (Over C10-C28)	959		49.9		mg/Kg		05/07/21 13:41	05/08/21 05:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 13:41	05/08/21 05:16	1
Total TPH	959		49.9		mg/Kg		05/07/21 13:41	05/08/21 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/07/21 13:41	05/08/21 05:16	1
o-Terphenyl	108		70 - 130	05/07/21 13:41	05/08/21 05:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3460		24.9		mg/Kg			05/10/21 13:12	5

Client Sample ID: PH02

Lab Sample ID: 890-640-21

Date Collected: 05/04/21 09:30

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/21 11:21	05/07/21 22:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/21 11:21	05/07/21 22:34	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/07/21 11:21	05/07/21 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/07/21 11:21	05/07/21 22:34	1
1,4-Difluorobenzene (Surr)	110		70 - 130	05/07/21 11:21	05/07/21 22:34	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		05/07/21 14:20	05/07/21 22:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 22:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 22:22	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	05/07/21 14:20	05/07/21 22:22	1
o-Terphenyl	91		70 - 130	05/07/21 14:20	05/07/21 22:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	605		4.96		mg/Kg			05/10/21 13:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH03

Lab Sample ID: 890-640-22

Date Collected: 05/04/21 10:57

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:55	1
m-Xylene & p-Xylene	0.0288		0.00396		mg/Kg		05/07/21 11:21	05/07/21 22:55	1
o-Xylene	0.0131		0.00198		mg/Kg		05/07/21 11:21	05/07/21 22:55	1
Xylenes, Total	0.0419		0.00396		mg/Kg		05/07/21 11:21	05/07/21 22:55	1
Total BTEX	0.0419		0.00396		mg/Kg		05/07/21 11:21	05/07/21 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/07/21 11:21	05/07/21 22:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/07/21 11:21	05/07/21 22:55	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	56.4		49.8		mg/Kg		05/07/21 14:20	05/07/21 22:43	1
Diesel Range Organics (Over C10-C28)	1870		49.8		mg/Kg		05/07/21 14:20	05/07/21 22:43	1
Oil Range Organics (Over C28-C36)	282		49.8		mg/Kg		05/07/21 14:20	05/07/21 22:43	1
Total TPH	2210		49.8		mg/Kg		05/07/21 14:20	05/07/21 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	05/07/21 14:20	05/07/21 22:43	1
o-Terphenyl	83		70 - 130	05/07/21 14:20	05/07/21 22:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	712		4.97		mg/Kg			05/10/21 13:23	1

Client Sample ID: PH03

Lab Sample ID: 890-640-23

Date Collected: 05/04/21 10:52

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/08/21 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/08/21 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/08/21 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:21	05/08/21 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/08/21 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:21	05/08/21 11:46	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:21	05/08/21 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/07/21 11:21	05/08/21 11:46	1
1,4-Difluorobenzene (Surr)	120		70 - 130	05/07/21 11:21	05/08/21 11:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH03

Lab Sample ID: 890-640-23

Date Collected: 05/04/21 10:52

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 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		05/07/21 14:20	05/07/21 23:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:04	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	05/07/21 14:20	05/07/21 23:04	1
o-Terphenyl	95		70 - 130	05/07/21 14:20	05/07/21 23:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.4		4.99		mg/Kg			05/10/21 13:28	1

Client Sample ID: PH04

Lab Sample ID: 890-640-24

Date Collected: 05/04/21 14:40

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/08/21 12:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/08/21 12:07	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/08/21 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/07/21 11:21	05/08/21 12:07	1
1,4-Difluorobenzene (Surr)	112		70 - 130	05/07/21 11:21	05/08/21 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:25	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/07/21 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	05/07/21 14:20	05/07/21 23:25	1
o-Terphenyl	108		70 - 130	05/07/21 14:20	05/07/21 23:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.4		4.95		mg/Kg			05/10/21 13:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH04

Lab Sample ID: 890-640-25

Date Collected: 05/04/21 14:42

Matrix: Solid

Date Received: 05/06/21 12:15

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		05/07/21 11:21	05/08/21 12:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/08/21 12:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 11:21	05/08/21 12:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/08/21 12:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 11:21	05/08/21 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/07/21 11:21	05/08/21 12:28	1
1,4-Difluorobenzene (Surr)	114		70 - 130	05/07/21 11:21	05/08/21 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 23:45	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	05/07/21 14:20	05/07/21 23:45	1
o-Terphenyl	96		70 - 130	05/07/21 14:20	05/07/21 23:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9		5.02		mg/Kg			05/10/21 13:50	1

Client Sample ID: PH08

Lab Sample ID: 890-640-26

Date Collected: 05/04/21 15:05

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/08/21 12:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/08/21 12:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/08/21 12:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/21 11:21	05/08/21 12:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/21 11:21	05/08/21 12:48	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/21 11:21	05/08/21 12:48	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/07/21 11:21	05/08/21 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/07/21 11:21	05/08/21 12:48	1
1,4-Difluorobenzene (Surr)	115		70 - 130	05/07/21 11:21	05/08/21 12:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH08

Lab Sample ID: 890-640-26

Date Collected: 05/04/21 15:05

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

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		05/07/21 14:20	05/08/21 00:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/08/21 00:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/08/21 00:06	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/08/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	05/07/21 14:20	05/08/21 00:06	1
o-Terphenyl	98		70 - 130	05/07/21 14:20	05/08/21 00:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.8		5.04		mg/Kg			05/10/21 14:06	1

Client Sample ID: PH08

Lab Sample ID: 890-640-27

Date Collected: 05/04/21 15:08

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/08/21 13:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/08/21 13:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/08/21 13:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/21 11:21	05/08/21 13:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/21 11:21	05/08/21 13:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/21 11:21	05/08/21 13:09	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/07/21 11:21	05/08/21 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/07/21 11:21	05/08/21 13:09	1
1,4-Difluorobenzene (Surr)	115		70 - 130	05/07/21 11:21	05/08/21 13:09	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		05/07/21 14:20	05/08/21 00:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/08/21 00:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/08/21 00:27	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/08/21 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	05/07/21 14:20	05/08/21 00:27	1
o-Terphenyl	89		70 - 130	05/07/21 14:20	05/08/21 00:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.6		5.04		mg/Kg			05/10/21 14:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH07

Lab Sample ID: 890-640-28

Date Collected: 05/04/21 14:58

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 16:06	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		05/07/21 13:18	05/07/21 16:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 16:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 13:18	05/07/21 16:06	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/07/21 13:18	05/07/21 16:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 13:18	05/07/21 16:06	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 13:18	05/07/21 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	05/07/21 13:18	05/07/21 16:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/07/21 13:18	05/07/21 16:06	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		05/07/21 14:20	05/08/21 00:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/08/21 00:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/08/21 00:47	1
Total TPH	<49.9	U	49.9		mg/Kg		05/07/21 14:20	05/08/21 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/07/21 14:20	05/08/21 00:47	1
o-Terphenyl	106		70 - 130	05/07/21 14:20	05/08/21 00:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		4.97		mg/Kg			05/10/21 14:17	1

Client Sample ID: PH07

Lab Sample ID: 890-640-29

Date Collected: 05/04/21 15:00

Matrix: Solid

Date Received: 05/06/21 12:15

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		05/07/21 13:18	05/07/21 16:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/21 13:18	05/07/21 16:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/21 13:18	05/07/21 16:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/21 13:18	05/07/21 16:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/21 13:18	05/07/21 16:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/21 13:18	05/07/21 16:31	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/07/21 13:18	05/07/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	05/07/21 13:18	05/07/21 16:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/07/21 13:18	05/07/21 16:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH07

Lab Sample ID: 890-640-29

Date Collected: 05/04/21 15:00

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 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		05/07/21 14:20	05/08/21 01:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/08/21 01:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/08/21 01:08	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/08/21 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	05/07/21 14:20	05/08/21 01:08	1
o-Terphenyl	99		70 - 130	05/07/21 14:20	05/08/21 01:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.95		mg/Kg			05/10/21 14:22	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-640-1	FS01	107	96
890-640-2	FS02	99	99
890-640-3	FS03	104	97
890-640-4	FS04	104	95
890-640-5	FS05	92	97
890-640-6	FS06	106	100
890-640-7	FS07	118	104
890-640-8	FS08	96	114
890-640-9	FS09	98	122
890-640-10	FS10	115	143 S1+
890-640-11	FS11	109	114
890-640-12	FS12	102	124
890-640-13	FS13	98	121
890-640-14	FS14	94	115
890-640-15	FS15	3 S1-	3 S1-
890-640-16	SW01	99	119
890-640-17	SW02	94	119
890-640-18	PH01	86	106
890-640-19	PH01	96	119
890-640-20	PH02	103	112
890-640-21	PH02	95	110
890-640-22	PH03	101	104
890-640-23	PH03	103	120
890-640-24	PH04	92	112
890-640-25	PH04	105	114
890-640-26	PH08	94	115
890-640-27	PH08	108	115
890-640-28	PH07	83	89
890-640-28 MS	PH07	86	103
890-640-28 MSD	PH07	84	108
890-640-29	PH07	85	100
LCS 880-2829/1-A	Lab Control Sample	110	100
LCS 880-2831/1-A	Lab Control Sample	93	116
LCS 880-2837/1-A	Lab Control Sample	85	106
LCSD 880-2829/2-A	Lab Control Sample Dup	107	105
LCSD 880-2831/2-A	Lab Control Sample Dup	100	110
LCSD 880-2837/2-A	Lab Control Sample Dup	68 S1-	100
MB 880-2829/5-A	Method Blank	84	94
MB 880-2831/5-A	Method Blank	106	103
MB 880-2837/5-A	Method Blank	55 S1-	83

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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								
890-640-8 MS	FS08								
890-640-8 MSD	FS08								
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)				
890-640-1	FS01	97	101				
890-640-1 MS	FS01	103	101				
890-640-1 MSD	FS01	0.1 S1-	0.2 S1-				
890-640-2	FS02	100	104				
890-640-3	FS03	101	104				
890-640-4	FS04	52 S1-	112				
890-640-5	FS05	103	110				
890-640-6	FS06	101	106				
890-640-7	FS07	105	112				
890-640-8	FS08	99	106				
890-640-9	FS09	103	107				
890-640-10	FS10	101	109				
890-640-11	FS11	98	102				
890-640-12	FS12	100	108				
890-640-13	FS13	104	110				
890-640-14	FS14	100	102				
890-640-15	FS15	101	109				
890-640-16	SW01	101	103				
890-640-17	SW02	103	111				
890-640-18	PH01	107	114				
890-640-19	PH01	100	112				
890-640-20	PH02	101	108				
890-640-21	PH02	84	91				
890-640-21 MS	PH02	85	88				
890-640-21 MSD	PH02	85	88				
890-640-22	PH03	86	83				
890-640-23	PH03	85	95				
890-640-24	PH04	98	108				
890-640-25	PH04	87	96				
890-640-26	PH08	88	98				
890-640-27	PH08	81	89				
890-640-28	PH07	96	106				
890-640-29	PH07	87	99				
LCS 880-2842/2-A	Lab Control Sample	110	113				
LCS 880-2844/2-A	Lab Control Sample	94	102				
LCSD 880-2842/3-A	Lab Control Sample Dup	105	107				
LCSD 880-2844/3-A	Lab Control Sample Dup	102	108				
MB 880-2842/1-A	Method Blank	103	115				

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
MB 880-2844/1-A	Method Blank	106	118				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2829/5-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	05/07/21 11:08	05/07/21 16:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/07/21 11:08	05/07/21 16:37	1

Lab Sample ID: LCS 880-2829/1-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09587		mg/Kg		96	70 - 130
Toluene	0.100	0.09388		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09893		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-2829/2-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	7	35
Toluene	0.100	0.09895		mg/Kg		99	70 - 130	5	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2231		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-2831/5-A

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 16:40	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Lab Sample ID: MB 880-2831/5-A

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 16:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 16:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:21	05/07/21 16:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:21	05/07/21 16:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:21	05/07/21 16:40	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:21	05/07/21 16:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/07/21 11:21	05/07/21 16:40	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/07/21 11:21	05/07/21 16:40	1

Lab Sample ID: LCS 880-2831/1-A

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1084		mg/Kg		108	70 - 130
Toluene	0.100	0.1060		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.09826		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09566		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-2831/2-A

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2831

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	7	35
Toluene	0.100	0.1135		mg/Kg		113	70 - 130	7	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130	7	35
o-Xylene	0.100	0.1014		mg/Kg		101	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-640-8 MS

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: FS08

Prep Type: Total/NA

Prep Batch: 2831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.0998	0.06609		mg/Kg			
Toluene	<0.00198	U	0.0998	0.07599		mg/Kg			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Lab Sample ID: 890-640-8 MS

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: FS08

Prep Type: Total/NA

Prep Batch: 2831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.0998	0.07637		mg/Kg			
m-Xylene & p-Xylene	<0.00397	U	0.200	0.1512		mg/Kg			
o-Xylene	<0.00198	U	0.0998	0.07748		mg/Kg			

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

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-640-8 MSD

Matrix: Solid

Analysis Batch: 2836

Client Sample ID: FS08

Prep Type: Total/NA

Prep Batch: 2831

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0996	0.07176		mg/Kg					
Toluene	<0.00198	U	0.0996	0.07460		mg/Kg					
Ethylbenzene	<0.00198	U	0.0996	0.07567		mg/Kg					
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1477		mg/Kg					
o-Xylene	<0.00198	U	0.0996	0.07542		mg/Kg					

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

1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-2837/5-A

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 13:18	05/07/21 15:40	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 13:18	05/07/21 15:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130	05/07/21 13:18	05/07/21 15:40	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/07/21 13:18	05/07/21 15:40	1

Lab Sample ID: LCS 880-2837/1-A

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.1048		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Lab Sample ID: LCS 880-2837/1-A

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130
o-Xylene	0.100	0.08744		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-2837/2-A

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08753		mg/Kg		88	70 - 130	19	35
Toluene	0.100	0.09078		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.08814		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1877		mg/Kg		94	70 - 130	14	35
o-Xylene	0.100	0.07720		mg/Kg		77	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-640-28 MS

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: PH07

Prep Type: Total/NA

Prep Batch: 2837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0998	0.07565		mg/Kg		76	70 - 130
Toluene	<0.00200	U F1	0.0998	0.06977		mg/Kg		70	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07576		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1580		mg/Kg		79	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.06631	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-640-28 MSD

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: PH07

Prep Type: Total/NA

Prep Batch: 2837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.101	0.07147		mg/Kg		71	70 - 130	6	35
Toluene	<0.00200	U F1	0.101	0.06037	F1	mg/Kg		60	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.101	0.07238		mg/Kg		72	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1538		mg/Kg		76	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.101	0.06477	F1	mg/Kg		64	70 - 130	2	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Lab Sample ID: 890-640-28 MSD

Matrix: Solid

Analysis Batch: 2787

Client Sample ID: PH07

Prep Type: Total/NA

Prep Batch: 2837

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-2842/1-A

Matrix: Solid

Analysis Batch: 2812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2842

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 20:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 20:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 20:38	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 13:41	05/07/21 20:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
1-Chlorooctane	103		70 - 130	05/07/21 13:41	05/07/21 20:38	1
o-Terphenyl	115		70 - 130	05/07/21 13:41	05/07/21 20:38	1

Lab Sample ID: LCS 880-2842/2-A

Matrix: Solid

Analysis Batch: 2812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2842

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Added	Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	976.2		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1179		mg/Kg		118	70 - 130

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
1-Chlorooctane	110		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-2842/3-A

Matrix: Solid

Analysis Batch: 2812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2842

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD
Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	1000	939.0		mg/Kg		94	70 - 130	4 20
Diesel Range Organics (Over C10-C28)	1000	1122		mg/Kg		112	70 - 130	5 20

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Lab Sample ID: 890-640-1 MS

Matrix: Solid

Analysis Batch: 2812

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 2842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	883.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	70.1	F1	1000	1127		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	101		70 - 130						

Lab Sample ID: 890-640-1 MSD

Matrix: Solid

Analysis Batch: 2812

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 2842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	<49.9	U F1	mg/Kg		0	70 - 130	NC	20
Diesel Range Organics (Over C10-C28)	70.1	F1	998	<49.9	U F1	mg/Kg		0	70 - 130	NC	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	0.1	S1-	70 - 130								
o-Terphenyl	0.2	S1-	70 - 130								

Lab Sample ID: MB 880-2844/1-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2844

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		05/07/21 14:20	05/07/21 20:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 20:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 20:38	1
Total TPH	<50.0	U	50.0		mg/Kg		05/07/21 14:20	05/07/21 20:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/07/21 14:20	05/07/21 20:38	1
o-Terphenyl	118		70 - 130				05/07/21 14:20	05/07/21 20:38	1

Lab Sample ID: LCS 880-2844/2-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	930.6		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

Lab Sample ID: LCS 880-2844/2-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2844

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-2844/3-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2844

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1047		mg/Kg		105	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1128		mg/Kg		113	70 - 130	8	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 890-640-21 MS

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 2844

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	789.3		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	927.0		mg/Kg		93	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: 890-640-21 MSD

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: PH02

Prep Type: Total/NA

Prep Batch: 2844

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	792.4		mg/Kg		77	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	930.8		mg/Kg		93	70 - 130	0	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	88		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2843/1-A

Matrix: Solid

Analysis Batch: 2892

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			05/10/21 08:49	1

Lab Sample ID: LCS 880-2843/2-A

Matrix: Solid

Analysis Batch: 2892

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	236.0		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-2843/3-A

Matrix: Solid

Analysis Batch: 2892

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	235.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-640-3 MS

Matrix: Solid

Analysis Batch: 2892

Client Sample ID: FS03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	633	F1	253	808.6	F1	mg/Kg		69	90 - 110

Lab Sample ID: 890-640-3 MSD

Matrix: Solid

Analysis Batch: 2892

Client Sample ID: FS03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	633	F1	253	824.1	F1	mg/Kg		76	90 - 110	2	20

Lab Sample ID: MB 880-2846/1-A

Matrix: Solid

Analysis Batch: 2894

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			05/10/21 11:57	1

Lab Sample ID: LCS 880-2846/2-A

Matrix: Solid

Analysis Batch: 2894

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	240.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-2846/3-A

Matrix: Solid

Analysis Batch: 2894

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	235.6		mg/Kg		94	90 - 110	2	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-640-13 MS

Matrix: Solid

Analysis Batch: 2894

Client Sample ID: FS13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2090		251	3202	4	mg/Kg		445	90 - 110		

Lab Sample ID: 890-640-13 MSD

Matrix: Solid

Analysis Batch: 2894

Client Sample ID: FS13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2090		251	3187	4	mg/Kg		439	90 - 110	0	20

Lab Sample ID: 890-640-23 MS

Matrix: Solid

Analysis Batch: 2894

Client Sample ID: PH03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	92.4		250	327.8		mg/Kg		94	90 - 110		

Lab Sample ID: 890-640-23 MSD

Matrix: Solid

Analysis Batch: 2894

Client Sample ID: PH03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	92.4		250	329.2		mg/Kg		95	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

GC VOA

Analysis Batch: 2787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-28	PH07	Total/NA	Solid	8021B	2837
890-640-29	PH07	Total/NA	Solid	8021B	2837
MB 880-2837/5-A	Method Blank	Total/NA	Solid	8021B	2837
LCS 880-2837/1-A	Lab Control Sample	Total/NA	Solid	8021B	2837
LCSD 880-2837/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2837
890-640-28 MS	PH07	Total/NA	Solid	8021B	2837
890-640-28 MSD	PH07	Total/NA	Solid	8021B	2837

Prep Batch: 2829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-1	FS01	Total/NA	Solid	5035	
890-640-2	FS02	Total/NA	Solid	5035	
890-640-3	FS03	Total/NA	Solid	5035	
890-640-4	FS04	Total/NA	Solid	5035	
890-640-5	FS05	Total/NA	Solid	5035	
890-640-6	FS06	Total/NA	Solid	5035	
890-640-7	FS07	Total/NA	Solid	5035	
MB 880-2829/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-8	FS08	Total/NA	Solid	5035	
890-640-9	FS09	Total/NA	Solid	5035	
890-640-10	FS10	Total/NA	Solid	5035	
890-640-11	FS11	Total/NA	Solid	5035	
890-640-12	FS12	Total/NA	Solid	5035	
890-640-13	FS13	Total/NA	Solid	5035	
890-640-14	FS14	Total/NA	Solid	5035	
890-640-15	FS15	Total/NA	Solid	5035	
890-640-16	SW01	Total/NA	Solid	5035	
890-640-17	SW02	Total/NA	Solid	5035	
890-640-18	PH01	Total/NA	Solid	5035	
890-640-19	PH01	Total/NA	Solid	5035	
890-640-20	PH02	Total/NA	Solid	5035	
890-640-21	PH02	Total/NA	Solid	5035	
890-640-22	PH03	Total/NA	Solid	5035	
890-640-23	PH03	Total/NA	Solid	5035	
890-640-24	PH04	Total/NA	Solid	5035	
890-640-25	PH04	Total/NA	Solid	5035	
890-640-26	PH08	Total/NA	Solid	5035	
890-640-27	PH08	Total/NA	Solid	5035	
MB 880-2831/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2831/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2831/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-640-8 MS	FS08	Total/NA	Solid	5035	
890-640-8 MSD	FS08	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

GC VOA

Analysis Batch: 2835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-1	FS01	Total/NA	Solid	8021B	2829
890-640-2	FS02	Total/NA	Solid	8021B	2829
890-640-3	FS03	Total/NA	Solid	8021B	2829
890-640-4	FS04	Total/NA	Solid	8021B	2829
890-640-5	FS05	Total/NA	Solid	8021B	2829
890-640-6	FS06	Total/NA	Solid	8021B	2829
890-640-7	FS07	Total/NA	Solid	8021B	2829
MB 880-2829/5-A	Method Blank	Total/NA	Solid	8021B	2829
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	8021B	2829
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2829

Analysis Batch: 2836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-8	FS08	Total/NA	Solid	8021B	2831
890-640-9	FS09	Total/NA	Solid	8021B	2831
890-640-10	FS10	Total/NA	Solid	8021B	2831
890-640-11	FS11	Total/NA	Solid	8021B	2831
890-640-12	FS12	Total/NA	Solid	8021B	2831
890-640-13	FS13	Total/NA	Solid	8021B	2831
890-640-14	FS14	Total/NA	Solid	8021B	2831
890-640-15	FS15	Total/NA	Solid	8021B	2831
890-640-16	SW01	Total/NA	Solid	8021B	2831
890-640-17	SW02	Total/NA	Solid	8021B	2831
890-640-18	PH01	Total/NA	Solid	8021B	2831
890-640-19	PH01	Total/NA	Solid	8021B	2831
890-640-20	PH02	Total/NA	Solid	8021B	2831
890-640-21	PH02	Total/NA	Solid	8021B	2831
890-640-22	PH03	Total/NA	Solid	8021B	2831
890-640-23	PH03	Total/NA	Solid	8021B	2831
890-640-24	PH04	Total/NA	Solid	8021B	2831
890-640-25	PH04	Total/NA	Solid	8021B	2831
890-640-26	PH08	Total/NA	Solid	8021B	2831
890-640-27	PH08	Total/NA	Solid	8021B	2831
MB 880-2831/5-A	Method Blank	Total/NA	Solid	8021B	2831
LCS 880-2831/1-A	Lab Control Sample	Total/NA	Solid	8021B	2831
LCSD 880-2831/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2831
890-640-8 MS	FS08	Total/NA	Solid	8021B	2831
890-640-8 MSD	FS08	Total/NA	Solid	8021B	2831

Prep Batch: 2837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-28	PH07	Total/NA	Solid	5035	
890-640-29	PH07	Total/NA	Solid	5035	
MB 880-2837/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2837/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2837/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-640-28 MS	PH07	Total/NA	Solid	5035	
890-640-28 MSD	PH07	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

GC Semi VOA

Analysis Batch: 2812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-1	FS01	Total/NA	Solid	8015B NM	2842
890-640-2	FS02	Total/NA	Solid	8015B NM	2842
890-640-3	FS03	Total/NA	Solid	8015B NM	2842
890-640-4	FS04	Total/NA	Solid	8015B NM	2842
890-640-5	FS05	Total/NA	Solid	8015B NM	2842
890-640-6	FS06	Total/NA	Solid	8015B NM	2842
890-640-7	FS07	Total/NA	Solid	8015B NM	2842
890-640-8	FS08	Total/NA	Solid	8015B NM	2842
890-640-9	FS09	Total/NA	Solid	8015B NM	2842
890-640-10	FS10	Total/NA	Solid	8015B NM	2842
890-640-11	FS11	Total/NA	Solid	8015B NM	2842
890-640-12	FS12	Total/NA	Solid	8015B NM	2842
890-640-13	FS13	Total/NA	Solid	8015B NM	2842
890-640-14	FS14	Total/NA	Solid	8015B NM	2842
890-640-15	FS15	Total/NA	Solid	8015B NM	2842
890-640-16	SW01	Total/NA	Solid	8015B NM	2842
890-640-17	SW02	Total/NA	Solid	8015B NM	2842
890-640-18	PH01	Total/NA	Solid	8015B NM	2842
890-640-19	PH01	Total/NA	Solid	8015B NM	2842
890-640-20	PH02	Total/NA	Solid	8015B NM	2842
MB 880-2842/1-A	Method Blank	Total/NA	Solid	8015B NM	2842
LCS 880-2842/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2842
LCSD 880-2842/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2842
890-640-1 MS	FS01	Total/NA	Solid	8015B NM	2842
890-640-1 MSD	FS01	Total/NA	Solid	8015B NM	2842

Analysis Batch: 2814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-21	PH02	Total/NA	Solid	8015B NM	2844
890-640-22	PH03	Total/NA	Solid	8015B NM	2844
890-640-23	PH03	Total/NA	Solid	8015B NM	2844
890-640-24	PH04	Total/NA	Solid	8015B NM	2844
890-640-25	PH04	Total/NA	Solid	8015B NM	2844
890-640-26	PH08	Total/NA	Solid	8015B NM	2844
890-640-27	PH08	Total/NA	Solid	8015B NM	2844
890-640-28	PH07	Total/NA	Solid	8015B NM	2844
890-640-29	PH07	Total/NA	Solid	8015B NM	2844
MB 880-2844/1-A	Method Blank	Total/NA	Solid	8015B NM	2844
LCS 880-2844/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2844
LCSD 880-2844/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2844
890-640-21 MS	PH02	Total/NA	Solid	8015B NM	2844
890-640-21 MSD	PH02	Total/NA	Solid	8015B NM	2844

Prep Batch: 2842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-1	FS01	Total/NA	Solid	8015NM Prep	
890-640-2	FS02	Total/NA	Solid	8015NM Prep	
890-640-3	FS03	Total/NA	Solid	8015NM Prep	
890-640-4	FS04	Total/NA	Solid	8015NM Prep	
890-640-5	FS05	Total/NA	Solid	8015NM Prep	
890-640-6	FS06	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

GC Semi VOA (Continued)

Prep Batch: 2842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-7	FS07	Total/NA	Solid	8015NM Prep	
890-640-8	FS08	Total/NA	Solid	8015NM Prep	
890-640-9	FS09	Total/NA	Solid	8015NM Prep	
890-640-10	FS10	Total/NA	Solid	8015NM Prep	
890-640-11	FS11	Total/NA	Solid	8015NM Prep	
890-640-12	FS12	Total/NA	Solid	8015NM Prep	
890-640-13	FS13	Total/NA	Solid	8015NM Prep	
890-640-14	FS14	Total/NA	Solid	8015NM Prep	
890-640-15	FS15	Total/NA	Solid	8015NM Prep	
890-640-16	SW01	Total/NA	Solid	8015NM Prep	
890-640-17	SW02	Total/NA	Solid	8015NM Prep	
890-640-18	PH01	Total/NA	Solid	8015NM Prep	
890-640-19	PH01	Total/NA	Solid	8015NM Prep	
890-640-20	PH02	Total/NA	Solid	8015NM Prep	
MB 880-2842/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2842/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2842/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-640-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-640-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 2844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-21	PH02	Total/NA	Solid	8015NM Prep	
890-640-22	PH03	Total/NA	Solid	8015NM Prep	
890-640-23	PH03	Total/NA	Solid	8015NM Prep	
890-640-24	PH04	Total/NA	Solid	8015NM Prep	
890-640-25	PH04	Total/NA	Solid	8015NM Prep	
890-640-26	PH08	Total/NA	Solid	8015NM Prep	
890-640-27	PH08	Total/NA	Solid	8015NM Prep	
890-640-28	PH07	Total/NA	Solid	8015NM Prep	
890-640-29	PH07	Total/NA	Solid	8015NM Prep	
MB 880-2844/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2844/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2844/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-640-21 MS	PH02	Total/NA	Solid	8015NM Prep	
890-640-21 MSD	PH02	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-1	FS01	Soluble	Solid	DI Leach	
890-640-2	FS02	Soluble	Solid	DI Leach	
890-640-3	FS03	Soluble	Solid	DI Leach	
890-640-4	FS04	Soluble	Solid	DI Leach	
890-640-5	FS05	Soluble	Solid	DI Leach	
890-640-6	FS06	Soluble	Solid	DI Leach	
890-640-7	FS07	Soluble	Solid	DI Leach	
890-640-8	FS08	Soluble	Solid	DI Leach	
890-640-9	FS09	Soluble	Solid	DI Leach	
890-640-10	FS10	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

HPLC/IC (Continued)

Leach Batch: 2843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-11	FS11	Soluble	Solid	DI Leach	
890-640-12	FS12	Soluble	Solid	DI Leach	
MB 880-2843/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2843/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2843/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-640-3 MS	FS03	Soluble	Solid	DI Leach	
890-640-3 MSD	FS03	Soluble	Solid	DI Leach	

Leach Batch: 2846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-13	FS13	Soluble	Solid	DI Leach	
890-640-14	FS14	Soluble	Solid	DI Leach	
890-640-15	FS15	Soluble	Solid	DI Leach	
890-640-16	SW01	Soluble	Solid	DI Leach	
890-640-17	SW02	Soluble	Solid	DI Leach	
890-640-18	PH01	Soluble	Solid	DI Leach	
890-640-19	PH01	Soluble	Solid	DI Leach	
890-640-20	PH02	Soluble	Solid	DI Leach	
890-640-21	PH02	Soluble	Solid	DI Leach	
890-640-22	PH03	Soluble	Solid	DI Leach	
890-640-23	PH03	Soluble	Solid	DI Leach	
890-640-24	PH04	Soluble	Solid	DI Leach	
890-640-25	PH04	Soluble	Solid	DI Leach	
890-640-26	PH08	Soluble	Solid	DI Leach	
890-640-27	PH08	Soluble	Solid	DI Leach	
890-640-28	PH07	Soluble	Solid	DI Leach	
890-640-29	PH07	Soluble	Solid	DI Leach	
MB 880-2846/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2846/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2846/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-640-13 MS	FS13	Soluble	Solid	DI Leach	
890-640-13 MSD	FS13	Soluble	Solid	DI Leach	
890-640-23 MS	PH03	Soluble	Solid	DI Leach	
890-640-23 MSD	PH03	Soluble	Solid	DI Leach	

Analysis Batch: 2892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-1	FS01	Soluble	Solid	300.0	2843
890-640-2	FS02	Soluble	Solid	300.0	2843
890-640-3	FS03	Soluble	Solid	300.0	2843
890-640-4	FS04	Soluble	Solid	300.0	2843
890-640-5	FS05	Soluble	Solid	300.0	2843
890-640-6	FS06	Soluble	Solid	300.0	2843
890-640-7	FS07	Soluble	Solid	300.0	2843
890-640-8	FS08	Soluble	Solid	300.0	2843
890-640-9	FS09	Soluble	Solid	300.0	2843
890-640-10	FS10	Soluble	Solid	300.0	2843
890-640-11	FS11	Soluble	Solid	300.0	2843
890-640-12	FS12	Soluble	Solid	300.0	2843
MB 880-2843/1-A	Method Blank	Soluble	Solid	300.0	2843
LCS 880-2843/2-A	Lab Control Sample	Soluble	Solid	300.0	2843

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QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

HPLC/IC (Continued)

Analysis Batch: 2892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-2843/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2843
890-640-3 MS	FS03	Soluble	Solid	300.0	2843
890-640-3 MSD	FS03	Soluble	Solid	300.0	2843

Analysis Batch: 2894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-640-13	FS13	Soluble	Solid	300.0	2846
890-640-14	FS14	Soluble	Solid	300.0	2846
890-640-15	FS15	Soluble	Solid	300.0	2846
890-640-16	SW01	Soluble	Solid	300.0	2846
890-640-17	SW02	Soluble	Solid	300.0	2846
890-640-18	PH01	Soluble	Solid	300.0	2846
890-640-19	PH01	Soluble	Solid	300.0	2846
890-640-20	PH02	Soluble	Solid	300.0	2846
890-640-21	PH02	Soluble	Solid	300.0	2846
890-640-22	PH03	Soluble	Solid	300.0	2846
890-640-23	PH03	Soluble	Solid	300.0	2846
890-640-24	PH04	Soluble	Solid	300.0	2846
890-640-25	PH04	Soluble	Solid	300.0	2846
890-640-26	PH08	Soluble	Solid	300.0	2846
890-640-27	PH08	Soluble	Solid	300.0	2846
890-640-28	PH07	Soluble	Solid	300.0	2846
890-640-29	PH07	Soluble	Solid	300.0	2846
MB 880-2846/1-A	Method Blank	Soluble	Solid	300.0	2846
LCS 880-2846/2-A	Lab Control Sample	Soluble	Solid	300.0	2846
LCSD 880-2846/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2846
890-640-13 MS	FS13	Soluble	Solid	300.0	2846
890-640-13 MSD	FS13	Soluble	Solid	300.0	2846
890-640-23 MS	PH03	Soluble	Solid	300.0	2846
890-640-23 MSD	PH03	Soluble	Solid	300.0	2846

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS01

Lab Sample ID: 890-640-1

Date Collected: 05/04/21 11:20

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 22:25	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 21:41	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 10:09	CH	XM

Client Sample ID: FS02

Lab Sample ID: 890-640-2

Date Collected: 05/04/21 11:23

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 22:45	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 22:43	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 10:15	CH	XM

Client Sample ID: FS03

Lab Sample ID: 890-640-3

Date Collected: 05/04/21 11:25

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 23:06	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 23:04	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 10:20	CH	XM

Client Sample ID: FS04

Lab Sample ID: 890-640-4

Date Collected: 05/04/21 11:28

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 23:26	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 23:25	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 10:36	CH	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS05

Lab Sample ID: 890-640-5

Date Collected: 05/04/21 11:30

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 23:47	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 23:45	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 10:42	CH	XM

Client Sample ID: FS06

Lab Sample ID: 890-640-6

Date Collected: 05/04/21 12:28

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 00:07	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 00:06	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 10:58	CH	XM

Client Sample ID: FS07

Lab Sample ID: 890-640-7

Date Collected: 05/04/21 12:38

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/08/21 00:28	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 00:27	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 11:03	CH	XM

Client Sample ID: FS08

Lab Sample ID: 890-640-8

Date Collected: 05/04/21 11:53

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 17:01	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 00:47	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		5	2892	05/10/21 11:08	CH	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS09

Lab Sample ID: 890-640-9

Date Collected: 05/04/21 12:40

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 17:22	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 01:08	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		5	2892	05/10/21 11:14	CH	XM

Client Sample ID: FS10

Lab Sample ID: 890-640-10

Date Collected: 05/04/21 11:57

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 17:43	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 01:29	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		5	2892	05/10/21 11:19	CH	XM

Client Sample ID: FS11

Lab Sample ID: 890-640-11

Date Collected: 05/04/21 12:50

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 18:04	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 02:10	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		5	2892	05/10/21 11:25	CH	XM

Client Sample ID: FS12

Lab Sample ID: 890-640-12

Date Collected: 05/04/21 12:52

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 18:24	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 02:31	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 11:30	CH	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: FS13

Lab Sample ID: 890-640-13

Date Collected: 05/04/21 12:53

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 18:45	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 02:51	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		5	2894	05/10/21 12:13	CH	XM

Client Sample ID: FS14

Lab Sample ID: 890-640-14

Date Collected: 05/04/21 12:55

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 19:06	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 03:12	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		5	2894	05/10/21 12:29	CH	XM

Client Sample ID: FS15

Lab Sample ID: 890-640-15

Date Collected: 05/04/21 12:58

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 19:26	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 03:32	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		5	2894	05/10/21 12:35	CH	XM

Client Sample ID: SW01

Lab Sample ID: 890-640-16

Date Collected: 05/04/21 13:00

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 19:47	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 03:53	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		5	2894	05/10/21 12:40	CH	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: SW02

Lab Sample ID: 890-640-17

Date Collected: 05/04/21 13:02

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 20:08	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 04:14	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 12:45	CH	XM

Client Sample ID: PH01

Lab Sample ID: 890-640-18

Date Collected: 05/04/21 09:33

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 21:32	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 04:34	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:01	CH	XM

Client Sample ID: PH01

Lab Sample ID: 890-640-19

Date Collected: 05/04/21 09:18

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 21:52	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 04:55	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:07	CH	XM

Client Sample ID: PH02

Lab Sample ID: 890-640-20

Date Collected: 05/04/21 09:35

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 22:13	KL	XM
Total/NA	Prep	8015NM Prep			2842	05/07/21 13:41	AM	XM
Total/NA	Analysis	8015B NM		1	2812	05/08/21 05:16	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		5	2894	05/10/21 13:12	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH02

Lab Sample ID: 890-640-21

Date Collected: 05/04/21 09:30

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 22:34	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 22:22	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:18	CH	XM

Client Sample ID: PH03

Lab Sample ID: 890-640-22

Date Collected: 05/04/21 10:57

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/07/21 22:55	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 22:43	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:23	CH	XM

Client Sample ID: PH03

Lab Sample ID: 890-640-23

Date Collected: 05/04/21 10:52

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/08/21 11:46	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 23:04	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:28	CH	XM

Client Sample ID: PH04

Lab Sample ID: 890-640-24

Date Collected: 05/04/21 14:40

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/08/21 12:07	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 23:25	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:44	CH	XM

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH04

Lab Sample ID: 890-640-25

Date Collected: 05/04/21 14:42

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/08/21 12:28	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 23:45	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 13:50	CH	XM

Client Sample ID: PH08

Lab Sample ID: 890-640-26

Date Collected: 05/04/21 15:05

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/08/21 12:48	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/08/21 00:06	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 14:06	CH	XM

Client Sample ID: PH08

Lab Sample ID: 890-640-27

Date Collected: 05/04/21 15:08

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2831	05/07/21 11:21	KL	XM
Total/NA	Analysis	8021B		1	2836	05/08/21 13:09	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/08/21 00:27	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 14:11	CH	XM

Client Sample ID: PH07

Lab Sample ID: 890-640-28

Date Collected: 05/04/21 14:58

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2837	05/07/21 13:18	MR	XM
Total/NA	Analysis	8021B		1	2787	05/07/21 16:06	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/08/21 00:47	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 14:17	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Client Sample ID: PH07
Date Collected: 05/04/21 15:00
Date Received: 05/06/21 12:15

Lab Sample ID: 890-640-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2837	05/07/21 13:18	MR	XM
Total/NA	Analysis	8021B		1	2787	05/07/21 16:31	KL	XM
Total/NA	Prep	8015NM Prep			2844	05/07/21 14:20	AM	XM
Total/NA	Analysis	8015B NM		1	2814	05/08/21 01:08	AJ	XM
Soluble	Leach	DI Leach			2846	05/07/21 14:51	CH	XM
Soluble	Analysis	300.0		1	2894	05/10/21 14:22	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Laboratory: Eurofins Xenco, Midland

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

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

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

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:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-640-1
SDG: TE034821016

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-640-1	FS01	Solid	05/04/21 11:20	05/06/21 12:15	- 1
890-640-2	FS02	Solid	05/04/21 11:23	05/06/21 12:15	- 0.5
890-640-3	FS03	Solid	05/04/21 11:25	05/06/21 12:15	- 0.5
890-640-4	FS04	Solid	05/04/21 11:28	05/06/21 12:15	- 0.5
890-640-5	FS05	Solid	05/04/21 11:30	05/06/21 12:15	- 0.5
890-640-6	FS06	Solid	05/04/21 12:28	05/06/21 12:15	- 1
890-640-7	FS07	Solid	05/04/21 12:38	05/06/21 12:15	- 0.5
890-640-8	FS08	Solid	05/04/21 11:53	05/06/21 12:15	- 0.5
890-640-9	FS09	Solid	05/04/21 12:40	05/06/21 12:15	- 0.5
890-640-10	FS10	Solid	05/04/21 11:57	05/06/21 12:15	- 0.5
890-640-11	FS11	Solid	05/04/21 12:50	05/06/21 12:15	- 0.5
890-640-12	FS12	Solid	05/04/21 12:52	05/06/21 12:15	- 0.5
890-640-13	FS13	Solid	05/04/21 12:53	05/06/21 12:15	- 0.5
890-640-14	FS14	Solid	05/04/21 12:55	05/06/21 12:15	- 0.5
890-640-15	FS15	Solid	05/04/21 12:58	05/06/21 12:15	- 0.5
890-640-16	SW01	Solid	05/04/21 13:00	05/06/21 12:15	1 - 0
890-640-17	SW02	Solid	05/04/21 13:02	05/06/21 12:15	1 - 0
890-640-18	PH01	Solid	05/04/21 09:33	05/06/21 12:15	- 0.5
890-640-19	PH01	Solid	05/04/21 09:18	05/06/21 12:15	- 1
890-640-20	PH02	Solid	05/04/21 09:35	05/06/21 12:15	- 0.5
890-640-21	PH02	Solid	05/04/21 09:30	05/06/21 12:15	- 1
890-640-22	PH03	Solid	05/04/21 10:57	05/06/21 12:15	- 0.5
890-640-23	PH03	Solid	05/04/21 10:52	05/06/21 12:15	- 1
890-640-24	PH04	Solid	05/04/21 14:40	05/06/21 12:15	- 0.5
890-640-25	PH04	Solid	05/04/21 14:42	05/06/21 12:15	- 1
890-640-26	PH08	Solid	05/04/21 15:05	05/06/21 12:15	- 0.5
890-640-27	PH08	Solid	05/04/21 15:08	05/06/21 12:15	- 1
890-640-28	PH07	Solid	05/04/21 14:58	05/06/21 12:15	- 0.5
890-640-29	PH07	Solid	05/04/21 15:00	05/06/21 12:15	- 1

Eurofins Xenco, Carlsbad


Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 3

Project Manager:	Joseph Hernandez	Bill to: (if different)	Lynnda Laumbach
Company Name:	WSP USA	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:	joe.hernandez@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: _____			
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Project Name:	East Pecos 22-2H	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE034821016	Due Date:			
Project Location:	Eddy county	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Fathma Smith				
P.O. #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No			
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	T-NM-007		
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:			
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	3.0		
Total Containers:		Corrected Temperature:	2.8		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
FS01	S	5/4/21	11:20	1'	1
FS02			11:23	0.5'	
FS03			11:25	0.5'	
FS04			11:28	0.5'	
FS05			11:30	0.5'	
FS06			12:28	1'	
FS07			12:38	0.5'	
FS08			11:53	0.5'	
FS09			12:40	0.5'	
FS10			11:57	0.5'	
ANALYSIS REQUEST TPH (EPA 8015) ☒ BTEX (EPA 8015) ☒ Chloride (EPA 300.0) ☒  890-640 Chain of Custody					
Preservative Codes None: NO ☐ DI Water: H ₂ O ☐ Cool: Cool ☐ MeOH: Me ☐ HCL: HC ☐ HNO ₃ : HN ☐ H ₂ SO ₄ : H ₂ ☐ NaOH: Na ☐ H ₂ PO ₄ : HP ☐ NaHSO ₄ : NABIS ☐ Na ₂ S ₂ O ₃ : NASO ₃ ☐ Zn Acetate+NaOH: Zn ☐ NaOH+Ascorbic Acid: SARC ☐					
Sample Comments					

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. The client agrees to indemnify and hold Eurofins Xenco harmless from all claims, damages, losses and expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5/10/21 12:15			


Environment Testing
Xenco
Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Josep Hernandez	Bill to: (if different)	Lynda Laumbach
Company Name:	WSP USA	Company Name:	WPX Energy
Address:	3300 North A Street	Address:	5315 Buena Vista
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	281-702-2329	Email:	joe.hernandez@wsp.com

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

Project Name:	East Pecos 22-2H	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE034821016				
Project Location:	Eddy County	Due Date:			
Sampler's Name:	Fatima Smith	TAT starts the day received by the lab, if received by 4:30pm			
P.O. #:		Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No		
SAMPLE RECEIPT		Thermometer ID:	TEMP 100		
Samples Received Inact:	☒ Yes ☐ No	Correction Factor:			
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	3.0		
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:	2.8		
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS11	S	5/4/21	1250	0.5'		1	TPH (EPA 801.1)		None: NO	DI Water: H ₂ O
FS12			1252	0.5'			BTEX (EPA 801.5)		Cool: Cool	MeOH: Me
FS13			1253	0.5'			Chloride (EPA 300.0)		HCL: HC	HNO ₃ : HN
FS14			1255	0.5'					H ₂ SO ₄ : H ₂	NaOH: Na
FS15			1258	0.5'					H ₃ PO ₄ : HP	
SW01			1300	0-1'					NaHSO ₄ : NABIS	
SW02			1302	0-1'					Na ₂ S ₂ O ₃ : NaSO ₃	
PH01			0933	0.5'					Zn Acetate+NaOH: Zn	
PH01			0918	1'					NaOH+Ascorbic Acid: SANC	
PH02			0935	0.5'						

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
fatia	Gabrey Ordonez	5/10/21 12:5			

Revised Date: 08/25/2020 Rev: 2020.2



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Joseph Hernandez	Bill to: (if different)	Lynnda Laumbach
Company Name:	WSP USA	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:	j.hernandez@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: _____	
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Project Name:	East Pecos 22-24	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes			
Project Number:	TE034821016	☒ Routine ☐ Rush																		None: NO	DI Water: H ₂ O		
Project Location:	Edley county	Due Date:																		Cool: Cool	MeOH: Me		
Sample's Name:	Fatima Smith	TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC	HNO ₃ : HN		
PO #:		Temp Blank:	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	TEMM-002																	H ₃ PO ₄ : HP	
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:																		NaHSO ₄ : NABIS			
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	2.0																	Na ₂ S ₂ O ₃ : NaSO ₃			
Total Containers:		Corrected Temperature:	2.8																	Zn Acetate+NaOH: Zn			
																				NaOH+Ascorbic Acid: SANC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments
PH02	S	5/4/21	0930	1'		1	TPH (EPA 0=8021)																
PH03			1057	0.5'			BTEX (EPA 8015)																
PH03			1052	1'			Chloride (EPA 300.0)																
PH04			1440	0.5'																			
PH04			1442	1'																			
PH08			1505	0.5'																			
PH08			1508	1'																			
PH07			1458	0.5'																			
PH07			1500	1'																			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Matrix(es) to be analyzed: TELP / STEP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Fatima	Gabriel Didone	5/6/21 12:15			

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Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No																																																																																																																								
Client Contact	Phone	Kramer Jessica			890-205 1																																																																																																																								
Shipping/Receiving	E-Mail	Jessica.kramer@eurofins.com	State of Origin		Page 1 of 4																																																																																																																								
Company	Accreditations Required (See note)	NEAP - Texas			Job #																																																																																																																								
Address	Due Date Requested	5/12/2021			890-640-1																																																																																																																								
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<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (M=water, S=solid, O=oil, B=biomass, A=air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>300_ORGFM_28D/DI_LEACH Chloride</th> <th>8016MOD_NM/8016NM_S_Prep Full TPH</th> <th>8021B/5035FP_Calc BTEX</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>FS01 (890-640-1)</td> <td>5/4/21</td> <td>11 20</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS02 (890-640-2)</td> <td>5/4/21</td> <td>11 23</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS03 (890-640-3)</td> <td>5/4/21</td> <td>11 25</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS04 (890-640-4)</td> <td>5/4/21</td> <td>11 28</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS05 (890-640-5)</td> <td>5/4/21</td> <td>11 30</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS06 (890-640-6)</td> <td>5/4/21</td> <td>12 28</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS07 (890-640-7)</td> <td>5/4/21</td> <td>12 38</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS08 (890-640-8)</td> <td>5/4/21</td> <td>11 53</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS09 (890-640-9)</td> <td>5/4/21</td> <td>12 40</td> <td></td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> </tbody> </table>						Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (M=water, S=solid, O=oil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_NM/8016NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:	FS01 (890-640-1)	5/4/21	11 20		Solid	X	X	X	X		1		FS02 (890-640-2)	5/4/21	11 23		Solid	X	X	X	X		1		FS03 (890-640-3)	5/4/21	11 25		Solid	X	X	X	X		1		FS04 (890-640-4)	5/4/21	11 28		Solid	X	X	X	X		1		FS05 (890-640-5)	5/4/21	11 30		Solid	X	X	X	X		1		FS06 (890-640-6)	5/4/21	12 28		Solid	X	X	X	X		1		FS07 (890-640-7)	5/4/21	12 38		Solid	X	X	X	X		1		FS08 (890-640-8)	5/4/21	11 53		Solid	X	X	X	X		1		FS09 (890-640-9)	5/4/21	12 40		Solid	X	X	X	X		1	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (M=water, S=solid, O=oil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_NM/8016NM_S_Prep Full TPH	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:																																																																																																																		
FS01 (890-640-1)	5/4/21	11 20		Solid	X	X	X	X		1																																																																																																																			
FS02 (890-640-2)	5/4/21	11 23		Solid	X	X	X	X		1																																																																																																																			
FS03 (890-640-3)	5/4/21	11 25		Solid	X	X	X	X		1																																																																																																																			
FS04 (890-640-4)	5/4/21	11 28		Solid	X	X	X	X		1																																																																																																																			
FS05 (890-640-5)	5/4/21	11 30		Solid	X	X	X	X		1																																																																																																																			
FS06 (890-640-6)	5/4/21	12 28		Solid	X	X	X	X		1																																																																																																																			
FS07 (890-640-7)	5/4/21	12 38		Solid	X	X	X	X		1																																																																																																																			
FS08 (890-640-8)	5/4/21	11 53		Solid	X	X	X	X		1																																																																																																																			
FS09 (890-640-9)	5/4/21	12 40		Solid	X	X	X	X		1																																																																																																																			
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																																																																																																																													
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Eurofins Xenco, Carlsbad

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

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Kramer Jessica	Carrier Tracking No(s)	COC No:						
Shipping/Receiving <td>Phone:</td> <td>E-Mail:</td> <td>Jessica.kramer@eurofinset.com <td>State of Origin:</td> <td>890-205 2</td> </td>		Phone:	E-Mail:	Jessica.kramer@eurofinset.com <td>State of Origin:</td> <td>890-205 2</td>	State of Origin:	890-205 2						
Company		Accreditations Required (See note)			Job #:	Page 2 of 4						
Eurofins Xenco		NELAP - Texas			890-640-1							
Address		Due Date Requested	Analysis Requested									
1211 W Florida Ave		5/12/2021										
City		TAT Requested (days)										
Midland												
State Zip												
TX, 79701												
Phone		PO #										
432-704-5440(Tel)												
Email		WO #:										
Project Name		Project #:										
East Pecos 22-2H		88000203										
Site:		SSOW#:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DL_LEACH Chloride	8015MOD_NM/8016NM_S_Prep Full TPH	8021B/6035FP_Calc BTEX	Total Number of containers	Special Instructions/Note.
FS11 (890-640-11)		5/4/21	11:57	Solid	Solid	X	X	X	X	X	1	
FS12 (890-640-12)		5/4/21	12:50	Solid	Solid	X	X	X	X	X	1	
FS13 (890-640-13)		5/4/21	12:52	Solid	Solid	X	X	X	X	X	1	
FS14 (890-640-14)		5/4/21	12:53	Solid	Solid	X	X	X	X	X	1	
FS15 (890-640-15)		5/4/21	12:55	Solid	Solid	X	X	X	X	X	1	
SW01 (890-640-16)		5/4/21	12:58	Solid	Solid	X	X	X	X	X	1	
SW02 (890-640-17)		5/4/21	13:00	Solid	Solid	X	X	X	X	X	1	
PH01 (890-640-18)		5/4/21	13:02	Solid	Solid	X	X	X	X	X	1	
			09:33	Solid	Solid	X	X	X	X	X	1	
			Mountain	Solid	Solid	X	X	X	X	X	1	

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

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed	Deliverable Requested I II III IV Other (specify)	Return To Client	Disposal By Lab
Primary Deliverable Rank 2		☐	☐
Special Instructions/QC Requirements		Archive For _____ Months	

Empty Kit Relinquished by		Time.	
Relinquished by	Date/Time	Company	Method of Shipment
Carlsbad 5:40:21	5/4/21	Company	Company
Relinquished by	Date/Time	Company	Company
Relinquished by	Date/Time	Company	Company

Custody Seals Intact		Custody Seal No	
Yes	No	Yes	No

Ver 11/01/2020

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Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:																																																																																																																								
Client Contact:	Phone:	Kramer, Jessica			890-205 3																																																																																																																								
Shipping/Receiving	E-Mail:	jessica.kramer@eurofins.com	State of Origin:		Page 3 of 4																																																																																																																								
Company:	Accreditations Required (See note):	NEIAP - Texas			Job #:																																																																																																																								
Address:	Due Date Requested	5/12/2021			890-640-1																																																																																																																								
City:	TAT Requested (days)	Midland																																																																																																																											
State Zip:		TX, 79701																																																																																																																											
Phone:	PO #:	432-704-5440(Tel)																																																																																																																											
Email:	WO #:																																																																																																																												
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Site:	SSOW#:	88000203																																																																																																																											
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Water, Soil, Organic, Inorganic, BR=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.																																																																																																																		
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PH03 (890-640-22)	5/4/21	10 57	Mountain	Solid	X	X	X	X	X	1																																																																																																																			
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Empty Kit Relinquished by Relinquished by Relinquished by Relinquished by Custody Seals Intact Δ Yes Δ No																																																																																																																													
Special Instructions/QC Requirements Method of Shipment: Received by Date/Time: Company Received by Date/Time: Company Coder Temperature(s) °C and Other Remarks																																																																																																																													

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-640-1

SDG Number: TE034821016

Login Number: 640

List Number: 1

Creator: Ordonez, Gabby

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: 890-640-1

SDG Number: TE034821016

Login Number: 640

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 05/07/21 01:17 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-637-1

Laboratory Sample Delivery Group: TE034821016

Client Project/Site: East Pecos 22-2H

For:

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

Attn: Joseph Hernandez

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

Authorized for release by:
5/10/2021 3:13:55 PM

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

LINKS

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results through

TotalAccess

Have a Question?



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www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Laboratory Job ID: 890-637-1
SDG: TE034821016

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
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 22-2H

Job ID: 890-637-1
SDG: TE034821016

Job ID: 890-637-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-637-1

Receipt

The samples were received on 5/6/2021 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH05 (890-637-1) and PH05 (890-637-2).

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 22-2H

Job ID: 890-637-1
SDG: TE034821016

Client Sample ID: PH05

Lab Sample ID: 890-637-1

Date Collected: 05/04/21 14:45

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 19:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 19:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 19:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/21 12:00	05/07/21 19:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 19:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/21 12:00	05/07/21 19:21	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/07/21 12:00	05/07/21 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/07/21 12:00	05/07/21 19:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/07/21 12:00	05/07/21 19:21	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		05/06/21 16:52	05/07/21 14:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 14:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 14:44	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	05/06/21 16:52	05/07/21 14:44	1
o-Terphenyl	104		70 - 130	05/06/21 16:52	05/07/21 14:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.0		4.95		mg/Kg			05/10/21 09:26	1

Client Sample ID: PH05

Lab Sample ID: 890-637-2

Date Collected: 05/04/21 14:47

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 19:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 19:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 19:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 19:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 19:42	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/07/21 12:00	05/07/21 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/07/21 12:00	05/07/21 19:42	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/07/21 12:00	05/07/21 19:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Client Sample ID: PH05

Lab Sample ID: 890-637-2

Date Collected: 05/04/21 14:47

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 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		05/06/21 16:52	05/07/21 15:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/21 16:52	05/07/21 15:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/21 16:52	05/07/21 15:04	1
Total TPH	<49.8	U	49.8		mg/Kg		05/06/21 16:52	05/07/21 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	05/06/21 16:52	05/07/21 15:04	1
o-Terphenyl	101		70 - 130	05/06/21 16:52	05/07/21 15:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		4.99		mg/Kg			05/10/21 09:32	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-637-1	PH05	92	96
890-637-2	PH05	91	95
LCS 880-2829/1-A	Lab Control Sample	110	100
LCSD 880-2829/2-A	Lab Control Sample Dup	107	105
MB 880-2829/5-A	Method Blank	84	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-637-1	PH05	91	104
890-637-2	PH05	92	101
LCS 880-2794/2-A	Lab Control Sample	97	102
LCSD 880-2794/3-A	Lab Control Sample Dup	105	111
MB 880-2794/1-A	Method Blank	91	101
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2829/5-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	05/07/21 11:08	05/07/21 16:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/07/21 11:08	05/07/21 16:37	1

Lab Sample ID: LCS 880-2829/1-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09587		mg/Kg		96	70 - 130
Toluene	0.100	0.09388		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09893		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-2829/2-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	7	35
Toluene	0.100	0.09895		mg/Kg		99	70 - 130	5	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2231		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

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

Lab Sample ID: MB 880-2794/1-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2794

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		05/06/21 16:52	05/07/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 11:15	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	05/06/21 16:52	05/07/21 11:15	1
o-Terphenyl	101		70 - 130	05/06/21 16:52	05/07/21 11:15	1

Lab Sample ID: LCS 880-2794/2-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.4		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-2794/3-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1018		mg/Kg		102	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2843/1-A

Matrix: Solid

Analysis Batch: 2892

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			05/10/21 08:49	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2843/2-A

Matrix: Solid

Analysis Batch: 2892

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	236.0		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-2843/3-A

Matrix: Solid

Analysis Batch: 2892

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	235.9		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

GC VOA

Prep Batch: 2829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-637-1	PH05	Total/NA	Solid	5035	
890-637-2	PH05	Total/NA	Solid	5035	
MB 880-2829/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-637-1	PH05	Total/NA	Solid	8021B	2829
890-637-2	PH05	Total/NA	Solid	8021B	2829
MB 880-2829/5-A	Method Blank	Total/NA	Solid	8021B	2829
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	8021B	2829
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2829

GC Semi VOA

Prep Batch: 2794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-637-1	PH05	Total/NA	Solid	8015NM Prep	
890-637-2	PH05	Total/NA	Solid	8015NM Prep	
MB 880-2794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-637-1	PH05	Total/NA	Solid	8015B NM	2794
890-637-2	PH05	Total/NA	Solid	8015B NM	2794
MB 880-2794/1-A	Method Blank	Total/NA	Solid	8015B NM	2794
LCS 880-2794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2794
LCSD 880-2794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2794

HPLC/IC

Leach Batch: 2843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-637-1	PH05	Soluble	Solid	DI Leach	
890-637-2	PH05	Soluble	Solid	DI Leach	
MB 880-2843/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2843/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2843/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-637-1	PH05	Soluble	Solid	300.0	2843
890-637-2	PH05	Soluble	Solid	300.0	2843
MB 880-2843/1-A	Method Blank	Soluble	Solid	300.0	2843
LCS 880-2843/2-A	Lab Control Sample	Soluble	Solid	300.0	2843
LCSD 880-2843/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2843

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Client Sample ID: PH05

Lab Sample ID: 890-637-1

Date Collected: 05/04/21 14:45

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 19:21	KL	XM
Total/NA	Prep	8015NM Prep			2794	05/06/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 14:44	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 09:26	CH	XM

Client Sample ID: PH05

Lab Sample ID: 890-637-2

Date Collected: 05/04/21 14:47

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 19:42	KL	XM
Total/NA	Prep	8015NM Prep			2794	05/06/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 15:04	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 09:32	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

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

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:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-637-1
SDG: TE034821016

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-637-1	PH05	Solid	05/04/21 14:45	05/06/21 12:15	- 0.5
890-637-2	PH05	Solid	05/04/21 14:47	05/06/21 12:15	- 1

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


Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

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

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

Project Name:	East Peccas 22-2H	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	TE034821016				
Project Location:	Edley county	Due Date:			
Sample's Name:	Fatima Smith	TAT starts the day received by the lab, if received by 4:30pm			
P.O. #:					
SAMPLE RECEIPT Samples Received Intact: ☒ Yes ☐ No Cooler Custody Seals: Yes ☒ No ☐ N/A Sample Custody Seals: Yes ☒ No ☐ N/A Total Containers: _____		Temp Blank: ☒ Yes ☐ No Thermometer ID: TMM 257 Correction Factor: _____ Temperature Reading: 3.0 Corrected Temperature: 2.9	ANALYSIS REQUEST TPH (EPA 0=8021) BTEX (EPA 8015) Chloride (EPA 300.0)		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
PHOS	S	5/4/21	1445	0.5'	1
PHOS	S	5/4/21	1447	1'	1
 890-637 Chain of Custody					
Preservative Codes None: NO ☐ DI Water: H ₂ O ☐ Cool: Cool ☐ MeOH: Me ☐ HCL: HC ☐ HNO: HN ☐ H ₂ SO: H ₂ ☐ NaOH: Na ☐ H ₃ PO: HP ☐ NaHSO: NABIS ☐ Na ₂ S ₂ O: NaSO ☐ Zn Acetate+NaOH: Zn ☐ NaOH+Ascorbic Acid: SAPC ☐					
Sample Comments					

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Fatima</i>	<i>Gavin Drane</i>	5/12/21			

Chain of Custody Record

[illegible]

eurofins
Environment Testing
America

Chain of Custody Record

Released to Imaging: 8/20/2021 9:11:27 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-637-1

SDG Number: TE034821016

Login Number: 637

List Number: 1

Creator: Ordonez, Gabby

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: 890-637-1

SDG Number: TE034821016

Login Number: 637

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 05/07/21 01:18 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-638-1

Laboratory Sample Delivery Group: TE034821016

Client Project/Site: East Pecos 22-2H

For:

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

Attn: Joseph Hernandez

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

Authorized for release by:
5/10/2021 3:15:40 PM

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

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

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

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Laboratory Job ID: 890-638-1
SDG: TE034821016

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
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 22-2H

Job ID: 890-638-1
SDG: TE034821016

Job ID: 890-638-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-638-1

Receipt

The samples were received on 5/6/2021 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH06 (890-638-1) and PH06 (890-638-2).

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 22-2H

Job ID: 890-638-1
SDG: TE034821016

Client Sample ID: PH06

Lab Sample ID: 890-638-1

Date Collected: 05/04/21 14:50

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 20:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 20:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 20:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/21 12:00	05/07/21 20:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 12:00	05/07/21 20:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/21 12:00	05/07/21 20:02	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/07/21 12:00	05/07/21 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/07/21 12:00	05/07/21 20:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/07/21 12:00	05/07/21 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/06/21 16:52	05/07/21 15:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/06/21 16:52	05/07/21 15:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/06/21 16:52	05/07/21 15:25	1
Total TPH	<49.7	U	49.7		mg/Kg		05/06/21 16:52	05/07/21 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	05/06/21 16:52	05/07/21 15:25	1
o-Terphenyl	104		70 - 130	05/06/21 16:52	05/07/21 15:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		4.95		mg/Kg			05/10/21 09:37	1

Client Sample ID: PH06

Lab Sample ID: 890-638-2

Date Collected: 05/04/21 14:52

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 21:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 21:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 21:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/07/21 12:00	05/07/21 21:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/21 12:00	05/07/21 21:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/07/21 12:00	05/07/21 21:24	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/07/21 12:00	05/07/21 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/07/21 12:00	05/07/21 21:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/07/21 12:00	05/07/21 21:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Client Sample ID: PH06

Lab Sample ID: 890-638-2

Date Collected: 05/04/21 14:52

Matrix: Solid

Date Received: 05/06/21 12:15

Sample Depth: - 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		05/06/21 16:52	05/07/21 15:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/21 16:52	05/07/21 15:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/21 16:52	05/07/21 15:46	1
Total TPH	<49.8	U	49.8		mg/Kg		05/06/21 16:52	05/07/21 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	05/06/21 16:52	05/07/21 15:46	1
o-Terphenyl	95		70 - 130	05/06/21 16:52	05/07/21 15:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	899		4.95		mg/Kg			05/10/21 09:53	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-638-1	PH06	101	95
890-638-2	PH06	104	95
LCS 880-2829/1-A	Lab Control Sample	110	100
LCSD 880-2829/2-A	Lab Control Sample Dup	107	105
MB 880-2829/5-A	Method Blank	84	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-638-1	PH06	90	104
890-638-2	PH06	84	95
LCS 880-2794/2-A	Lab Control Sample	97	102
LCSD 880-2794/3-A	Lab Control Sample Dup	105	111
MB 880-2794/1-A	Method Blank	91	101
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2829/5-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/07/21 11:08	05/07/21 16:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	05/07/21 11:08	05/07/21 16:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/07/21 11:08	05/07/21 16:37	1

Lab Sample ID: LCS 880-2829/1-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09587		mg/Kg		96	70 - 130
Toluene	0.100	0.09388		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09893		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-2829/2-A

Matrix: Solid

Analysis Batch: 2835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	7	35
Toluene	0.100	0.09895		mg/Kg		99	70 - 130	5	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2231		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

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

Lab Sample ID: MB 880-2794/1-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2794

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		05/06/21 16:52	05/07/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 11:15	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:52	05/07/21 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	05/06/21 16:52	05/07/21 11:15	1
o-Terphenyl	101		70 - 130	05/06/21 16:52	05/07/21 11:15	1

Lab Sample ID: LCS 880-2794/2-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.4		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-2794/3-A

Matrix: Solid

Analysis Batch: 2814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1018		mg/Kg		102	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1135		mg/Kg		113	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2843/1-A

Matrix: Solid

Analysis Batch: 2892

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			05/10/21 08:49	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2843/2-A

Matrix: Solid

Analysis Batch: 2892

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	236.0		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-2843/3-A

Matrix: Solid

Analysis Batch: 2892

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	235.9		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

GC VOA

Prep Batch: 2829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-638-1	PH06	Total/NA	Solid	5035	
890-638-2	PH06	Total/NA	Solid	5035	
MB 880-2829/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-638-1	PH06	Total/NA	Solid	8021B	2829
890-638-2	PH06	Total/NA	Solid	8021B	2829
MB 880-2829/5-A	Method Blank	Total/NA	Solid	8021B	2829
LCS 880-2829/1-A	Lab Control Sample	Total/NA	Solid	8021B	2829
LCSD 880-2829/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2829

GC Semi VOA

Prep Batch: 2794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-638-1	PH06	Total/NA	Solid	8015NM Prep	
890-638-2	PH06	Total/NA	Solid	8015NM Prep	
MB 880-2794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-638-1	PH06	Total/NA	Solid	8015B NM	2794
890-638-2	PH06	Total/NA	Solid	8015B NM	2794
MB 880-2794/1-A	Method Blank	Total/NA	Solid	8015B NM	2794
LCS 880-2794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2794
LCSD 880-2794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2794

HPLC/IC

Leach Batch: 2843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-638-1	PH06	Soluble	Solid	DI Leach	
890-638-2	PH06	Soluble	Solid	DI Leach	
MB 880-2843/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2843/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2843/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-638-1	PH06	Soluble	Solid	300.0	2843
890-638-2	PH06	Soluble	Solid	300.0	2843
MB 880-2843/1-A	Method Blank	Soluble	Solid	300.0	2843
LCS 880-2843/2-A	Lab Control Sample	Soluble	Solid	300.0	2843
LCSD 880-2843/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2843

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Client Sample ID: PH06

Lab Sample ID: 890-638-1

Date Collected: 05/04/21 14:50

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 20:02	KL	XM
Total/NA	Prep	8015NM Prep			2794	05/06/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 15:25	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 09:37	CH	XM

Client Sample ID: PH06

Lab Sample ID: 890-638-2

Date Collected: 05/04/21 14:52

Matrix: Solid

Date Received: 05/06/21 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2829	05/07/21 12:00	KL	XM
Total/NA	Analysis	8021B		1	2835	05/07/21 21:24	KL	XM
Total/NA	Prep	8015NM Prep			2794	05/06/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	2814	05/07/21 15:46	AJ	XM
Soluble	Leach	DI Leach			2843	05/07/21 14:11	CH	XM
Soluble	Analysis	300.0		1	2892	05/10/21 09:53	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

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

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:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: East Pecos 22-2H

Job ID: 890-638-1
SDG: TE034821016

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-638-1	PH06	Solid	05/04/21 14:50	05/06/21 12:15	- 0.5
890-638-2	PH06	Solid	05/04/21 14:52	05/06/21 12:15	- 1

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



Environmental Testing
Xerox

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (if different)	Lynda Laumbach
Company Name:	WSP USA	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:	jehernandez@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 22-2H		Turn Around	
Project Number:		TE034821016		☒ Routine ☐ Rush	
Project Location:		Eddy County		Due Date:	
Sampler's Name:		Fathma Smith		TAT starts the day received by the lab, if received by 4:30pm	
PO #:					
SAMPLE RECEIPT		Temp Blank:		Yes/No	
Samples Received Intact:		(Yes) No		Thermometer ID: TENM107	
Cooler Custody Seals:		Yes (No) N/A		Correction Factor:	
Sample Custody Seals:		Yes (No) N/A		Temperature Reading: 3.0	
Total Containers:				Corrected Temperature: 17.8	
Parameters					
Pres. Code 1 (EPA 0-8021) 2 (EPA 8015) 3 (EPA 300.0)					
ANALYSIS REQUEST					
None; NO Cool; Cool HCL; HC H ₂ SO ₄ ; H ₂ H ₃ PO ₄ ; HP NaHSO ₄ ; NABIS Na ₂ S ₂ O ₃ ; NaSO ₃ Zn Acetate+NaOH; Zn NaOH+Ascorbic Acid; SAPC					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	BTE	Chl	Sample Comments
PH06	S	5/4/21	1450	0.5'		1				
PH06	S	5/4/21	1452	1'		1				
Not On										

Circle Method(s) and Metal(s) to be analyzed	8RCRA	SD	AS	BA	BE	CD	CR	CO	CU	PB	MN	MO	NI	SE	AG	TI	U	Hg	1631 / 245.1 / 7470 / 7471														
Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>Garcia Bradner</i>	2/6/21 12:56	2		
3			4		
5			6		

DL-447 (Rev. 08/2020) (Rev. 2020)

1089 N Canal St.
Carlsbad NM 88220

Chain of Custody Record



Environment Testing
America

Ver. 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-638-1

SDG Number: TE034821016

Login Number: 638

List Number: 1

Creator: Ordonez, Gabby

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: 890-638-1

SDG Number: TE034821016

Login Number: 638

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 05/07/21 01:20 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	

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

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

CONDITIONS

Action 36765

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 36765
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/20/2021