

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	NAPP2105539984
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

Latitude 32.15083 Longitude -103.9712 6  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Corral Canyon 10E	Site Type	Battery
Date Release Discovered	2/15/2021	API#	(if applicable)

Unit Letter	Section	Township	Range	County
B	10	25S	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 12.75	Volume Recovered (bbls) 11.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

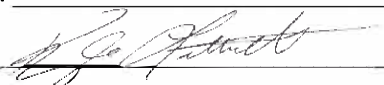
Cause of Release: A broken circulating line released produced water onto the ground. All standing fluids were recovered. A third-party contractor has been retained for remediation activities.

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Kyle Littrell	Title: Environmental Manager
Signature: 	Date: 02-24-21
email: kyle.littrell@exxonmobil.com	Telephone: 432-221-7331
<b><u>OCD Only</u></b>	
Received by: Ramona Marcus	Date: 5/4/2021

NAPP2105539984

<b>Location:</b>	<b>Corral Canyon 10 East</b>		
<b>Spill Date:</b>	<b>2/15/2021</b>		
<b>Area 1</b>			
Approximate Area =	3137.00	sq. ft.	
Average Saturation (or depth) of spill =	1.25	inches	
Average Porosity Factor =	0.03		
<b>VOLUME OF LEAK</b>			
Total Produced Water =	12.75	bbls	

<b>TOTAL VOLUME OF LEAK</b>			
Total Produced Water =	12.75	bbls	
<b>TOTAL VOLUME RECOVERED</b>			
Total Produced Water =	11.00	bbls	

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 08/15/21

email: Adrian\_Baker@exxonmobil.com Telephone: 432-221-7331

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAPP2105539984
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## Remediation Plan

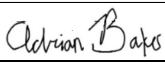
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Adrian Baker Title: Environmental Coordinator  
Signature:  Date: 08/15/21  
email: Adrian\_Baker@exxonmobil.com Telephone: 432-221-7331

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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## Remediation Plan

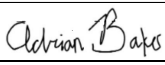
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Printed Name: Adrian Baker Title: Environmental Coordinator  
Signature:  Date: 08/15/21  
email: Adrian\_Baker@exxonmobil.com Telephone: 432-221-7331

**OCD Only**

Received by: Robert Hamlet Date: 11/3/2021

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

Signature:  Date: 11/3/2021



WSP USA

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

August 15, 2021

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

**RE:   Deferral Request  
      Corral Canyon 10E  
      Incident Number NAPP2105539984  
      Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling, and excavation activities at the Corral Canyon 10E (Site) in Unit B, Section 10, Township 25 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 resulting from a release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Deferral Request, describing remediation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2105539984 until the Site is reconstructed or the well pad is abandoned.

## **RELEASE BACKGROUND**

On February 15, 2021, a broken circulating line resulted in the release of 12.75 barrels (bbls) of produced water onto the surface of the well pad around active production equipment and steel containments. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 11.00 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 24, 2021. The release was assigned Incident Number NAPP2105539984.

## **SITE CHARACTERIZATION**

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During May 2021, WSP installed a soil boring (BH01) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring BH01 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during



drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The location of the borehole is approximately 387 feet southwest of the site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an intermittent arroyo, located approximately 1,112 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: 20,000 mg/kg

## **SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS**

On March 11, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC)



procedures to Eurofins Xenco Laboratories (Eurofins Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Benzene and/or BTEX concentrations also exceeded the Closure Criteria in preliminary soil samples SS02 through SS04. Chloride concentrations were compliant with the Closure Criteria in all four preliminary soil samples. Based on visual observations, field screening activities, and laboratory analytical results exceeding Closure Criteria, remediation activities were warranted.

### **EXCAVATION, DELINEATION, AND REMEDIATION ACTIVITIES**

Between April 1, 2021 and April 19, 2021, WSP personnel were at the Site to oversee excavation, delineation, and remediation activities.

Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a backhoe, transport vehicle, and hydrovac. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavations were completed to depths ranging from 1 foot to 1.5 feet bgs in areas that were accessible by backhoe and hydrovacuum. The excavations occurred on the well pad near the active production equipment and were limited by the presence of aboveground, active production equipment, steel tank battery containments, and buried active pipelines (Figure 3). XTO safety policy restricts excavation of soil within 2 feet of active production equipment.

Following removal of impacted soil to the extent possible, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples, FS01 through FS08, were collected at depths ranging from 1 foot to 1.5 feet bgs from the floor of the excavations. Due to the shallow depth of the excavations, the floor samples were representative of the excavation sidewalls. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extent and excavation soil sample locations are depicted on Figure 3. An estimated 90 cubic yards of soil were removed from the excavations. The soil was properly disposed of at a licensed disposal facility in Carlsbad, New Mexico.

Potholes PH01 through PH10 were advanced via backhoe to depths ranging from 2 feet to 4 feet bgs within and around the release extent to delineate the lateral and vertical extent of impacted soil left in place around active production equipment. Two discrete delineation soil samples were



collected from each pothole at depths ranging from 1 foot to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were documented on a lithologic/soil sampling log, which are included as Attachment 2. Field screening results indicated that impacts to soil did not exceed 2 feet bgs. The potholes and delineation soil sample locations are depicted on Figure 3.

To enhance remediation of residual hydrocarbon impacted soil left in place between active production equipment and steel containments, WSP personnel oversaw the application of MicroBlaze®. These areas were sprayed with a solution of MicroBlaze® and freshwater, followed by raking of the impacted soil. The extent of the MicroBlaze® application and raking area was mapped utilizing a handheld GPS unit and is depicted on Figure 3. Photographic documentation was conducted during the Site visits and a photographic log is included in Attachment 3.

## **ANALYTICAL RESULTS**

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that BTEX and/or TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Based on laboratory analytical results, excavation and delineation activities were completed.

Laboratory analytical results for excavation floor samples FS01 through FS08 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH10 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and below the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

## **DEFERRAL REQUEST**

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the release extent. The impacted soil is limited to the areas immediately beneath surface pipelines and active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining in place beneath the active production equipment and surface pipelines is delineated vertically by excavation floor samples FS01 through FS08 and pothole soil samples PH01/PH01A through PH03/PH03A, and laterally by pothole soil samples PH04/PH04A through PH10/PH10A. A maximum of 175 cubic yards of impacted soil remains in place beneath the active production equipment, assuming a maximum 2-foot depth based on the excavation

District II  
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and pothole soil samples listed above, that were compliant with the Closure Criteria. The deferral request area is shown on the attached Figure 3.

WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater is greater than 100 feet bgs, the majority of the released fluids were recovered during initial response activities, and the impacted soil remaining in place is limited to the area immediately beneath surface pipelines and active production equipment.

Based on the presence of surface pipelines and active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number naPP2105539984 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Kaleb Henry".

Kaleb Henry  
Assistant Consultant, Geologist

A handwritten signature in black ink that reads "Ashley L. Ager".

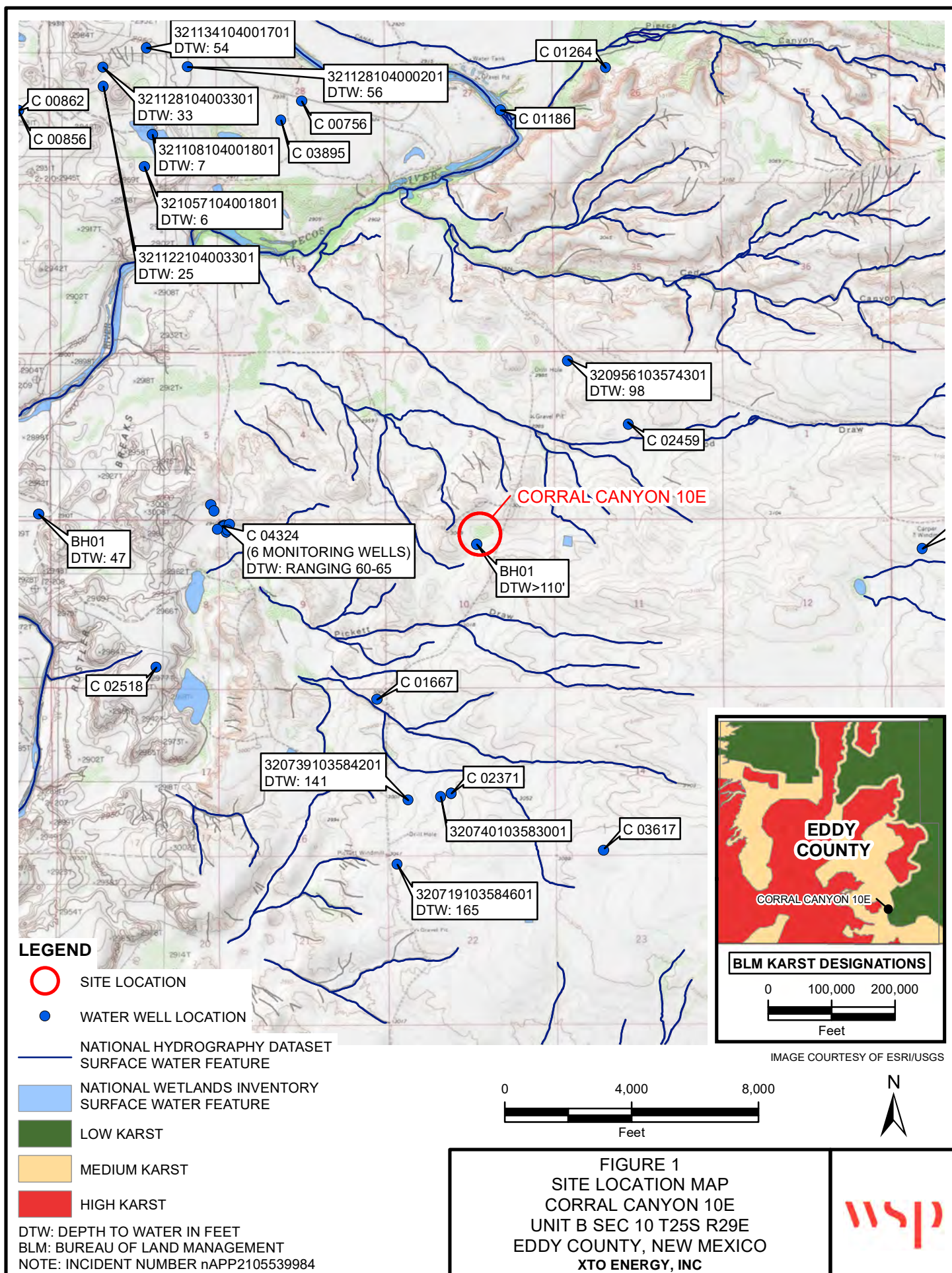
Ashley L. Ager, P.G.  
Managing Director, Geologist

cc: Shelby Pennington, XTO  
Adrian Baker, XTO  
Bureau of Land Management

Attachments:

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

FIGURES



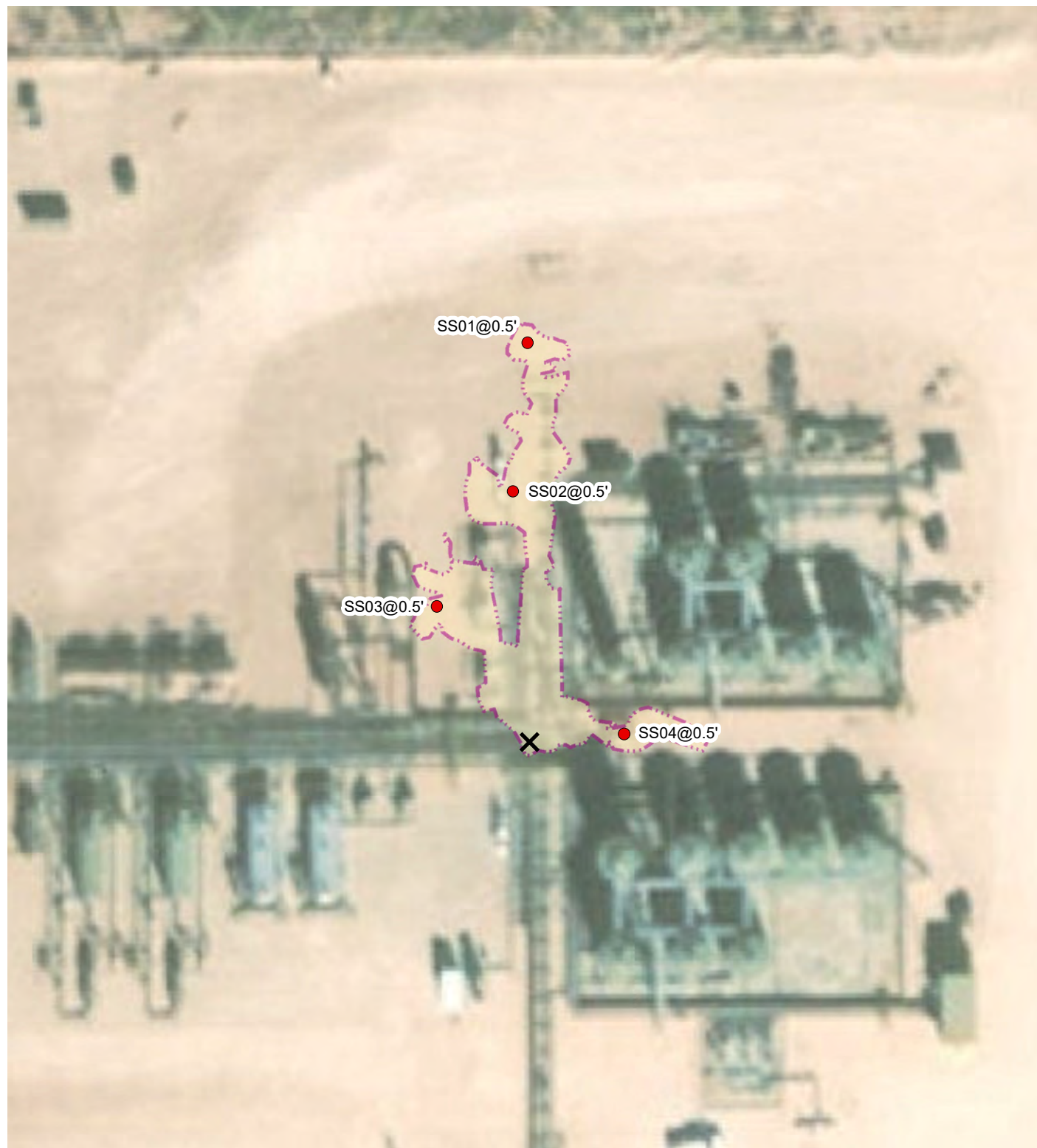
**LEGEND**

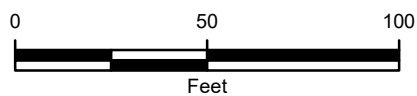
IMAGE COURTESY OF ESRI



RELEASE LOCATION

PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS  
EXCEEDING APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT



NOTE: INCIDENT NUMBER nAPP2105539984  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**PRELIMINARY SOIL SAMPLE LOCATIONS**  
CORRAL CANYON 10E  
UNIT B SEC 10 T25S R29E  
EDDY COUNTY, NEW MEXICO  
**XTO ENERGY, INC.**



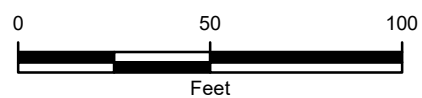
P:\XTO Energy\GIS\MXD\012921033\_CORRAL CANYON 10E\012921033\_FIG02\_PRELIMINARY\_2021.mxd

**LEGEND**

- X** RELEASE LOCATION
- ◆ DELINEATION SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- EXCAVATION EXTENT
- DEFERRAL AREA WITH MICROBLAZE APPLIED

NOTE: INCIDENT NUMBER nAPP2105539984  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI



**FIGURE 3**  
 SOIL SAMPLE LOCATIONS  
 CORRAL CANYON 10E  
 UNIT B SEC 10 T25S R29E  
 EDDY COUNTY, NEW MEXICO  
 XTO ENERGY, INC.



TABLES

Table 1

**Soil Analytical Results  
Corral Canyon 10E  
Incident Number NAPP2105539984  
Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			10	50	NE	NE	NE	1,000	2,500	20,000
<b>Surface Soil Samples</b>										
SS01	03/11/2021	0.5	0.00548	0.0396	2,370	4,250	271	6,620	6,890	<9.88
SS02	03/11/2021	0.5	11.2	637	8,850	14,600	896	23,450	24,300	22.0
SS03	03/11/2021	0.5	12.1	596	2,690	6,550	427	9,240	9,670	19.6
SS04	03/11/2021	0.5	2.47	120	4,470	6,510	404	10,980	11,400	13,800
<b>Delineation Soil Samples</b>										
PH01	04/01/2021	2	<0.00198	0.0317	<50.0	<50.0	<50.0	<50.0	<50.0	9.20
PH01A	04/01/2021	4	<0.00200	0.0145	<49.9	<49.9	<49.9	<49.9	<49.9	7.05
PH02	04/01/2021	2	<0.00202	<0.00202	<49.7	<49.7	<49.7	<49.7	<49.7	226
PH02A	04/01/2021	4	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	46.6
PH03	04/01/2021	2	<0.00200	0.0736	<49.8	<49.8	<49.8	<49.8	<49.8	59.3
PH03A	04/01/2021	4	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	9.09
PH04	04/19/2021	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	145
PH04A	04/19/2021	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	30.1
PH05	04/19/2021	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.9	<49.8	168
PH05A	04/19/2021	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	23.9
PH06	04/19/2021	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	52.1
PH06A	04/19/2021	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	136
PH07	04/19/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	133
PH07A	04/19/2021	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	74.9
PH08	04/19/2021	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	108
PH08A	04/19/2021	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	38.4

Table 1

**Soil Analytical Results**  
**Corral Canyon 10E**  
**Incident Number NAPP2105539984**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			10	50	NE	NE	NE	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
PH09	04/19/2021	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	23.4
PH09A	04/19/2021	2	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	19.2
PH10	04/19/2021	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	53.6
PH10A	04/19/2021	2	<0.00201	<0.00402	69.3	<50.0	<50.0	69.3	69.3	31.7
<b>Excavation Soil Samples</b>										
FS01	04/01/2021	1.5	<0.00199	<0.00199	<49.9	222	<49.9	222	222	19.7
FS02	04/01/2021	1.5	<0.00199	<0.00199	55.4	374	<49.9	429.4	429	51.8
FS03	04/01/2021	1.5	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	52.1
FS04	04/01/2021	1.5	0.00204	0.00204	<50.0	<50.0	<50.0	<50.0	<50.0	48.7
FS05	04/01/2021	1.5	<0.00202	0.0111	<50.0	71.2	<50.0	71.2	71.2	60.0
FS06	04/01/2021	1	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	123
FS07	04/01/2021	1	0.00202	0.0156	<49.9	100	<49.9	100	100	82.1
FS08	04/01/2021	1	0.00239	0.0259	<49.8	109	<49.8	109	109	43.8

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

&lt; - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

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

Text

impacted soil was removed

ATTACHMENT 1: REFERENCED WELL RECORDS

<b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220						BH or MW Name: BH01		Date: 05/26/2021	
						Site Name: Corral Canyon 10 East			
						RP or Incident Number: NA			
						WSP Job Number: TE012921006 & TE012921033			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>						Logged By: FS		Method: Rotary/Air	
Lat/Long: 32.149793, -103.971732			Field Screening: NA			Hole Diameter: 6.25 inches		Total Depth: 110.75 feet bgs	
								Depth to Water: Dry	
Backfill or Well Construction Materials / Comments: No field screening litholgy remarks only									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
D ↓ M ↓ M			N ↓ N		0	0	CCHE	0-24' CALICHE, dry, tan-off white, poor-moderate consolidation, no stain, no odor	
					9				
					18				
					27	27	SP	24-84' SAND, dry, light brown-brown, poorly graded fine-very fine grain, trace caliche gravel <0.5mm in diameter, poorly consolidated no stain, no odor	
					36				
					45				
					54				
					63				
					72				
					81				
99	99	SM	84-110' SILTY SAND, moist, brown, no plasticity cohesive, some sand, poorly graded, no stain, no odor						
108									
110									
TD @ 110.75 feet bgs									



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

## Search Results -- 1 sites found

site\_no list =

- 320956103574301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

## USGS 320956103574301 25S.29E.02.11111

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°09'56", Longitude 103°57'43" NAD27

Land-surface elevation 3,000 feet above NAVD88

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.

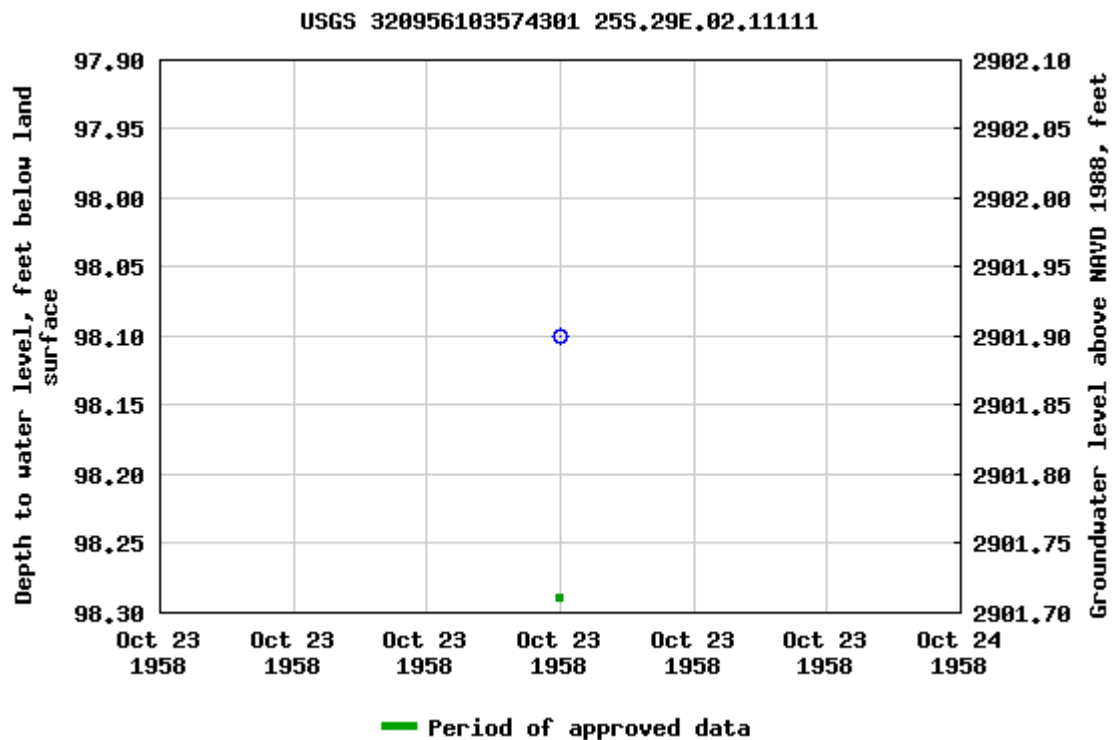
### Output formats

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[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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

Page Last Modified: 2021-03-11 16:09:30 EST

0.72 0.63 nadww01

ATTACHMENT 2: LITHOLOGIC/BORING LOGS

Released to Imaging: 11/3/2021 2:56:32 PM

Released to Imaging: 11/3/2021 2:56:32 PM

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ATTACHMENT 3: PHOTOGRAPHIC LOG



## PHOTOGRAPHIC LOG

XTO Energy, Inc.	Corral Canyon 10E Eddy County, New Mexico	TE012921033
------------------	--	-------------

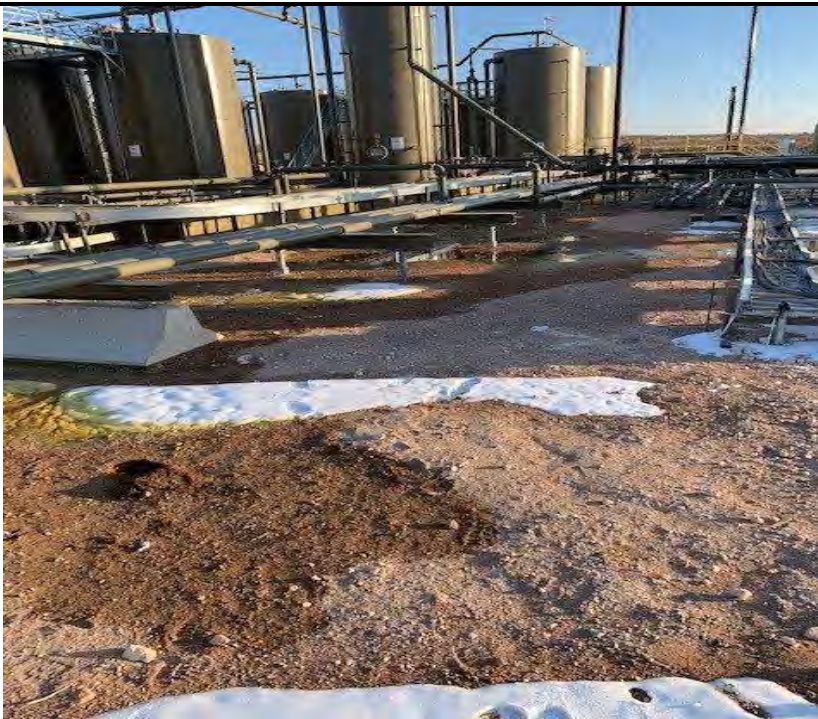

Photo No.	Date	
1	2/16/2021	
South facing view of release extent.		 A photograph showing a large, irregular, light-colored (white/yellow) spill on a dark, gravelly ground. In the background, there are several large, cylindrical industrial storage tanks and various pipes and structures of an industrial facility under a clear blue sky.

Photo No.	Date	
2	2/16/2021	
East facing view of release extent.		 A photograph taken from an elevated position looking down at a spill. The spill is a mix of white and yellowish material on a dark, wet surface. A bright yellow vertical pole or railing is in the foreground. In the background, industrial structures, including a staircase and pipes, are visible.

**PHOTOGRAPHIC LOG****XTO Energy, Inc.****Corral Canyon 10E  
Eddy County, New Mexico****TE012921033**



Photo No.	Date	
3	3/31/2021	
East facing view of excavation activities.		 A photograph showing an excavation site at an industrial facility. In the foreground, there are metal grates and pipes. The excavation pit is filled with dirt and debris. To the right, a yellow crane arm is visible. In the background, there are large industrial tanks and structures.

Photo No.	Date	
4	3/31/2021	
South facing view of excavation activities.		 A photograph showing a different view of the excavation site. The foreground is dominated by a large pile of dirt and rocks. To the left, there are metal pipes and structures. To the right, there are large industrial tanks and buildings. The background shows a clear sky and distant hills.

**PHOTOGRAPHIC LOG****XTO Energy, Inc.****Corral Canyon 10E  
Eddy County, New Mexico****TE012921033**

Photo No.	Date	
5	4/1/2021	
North facing view of excavation crew hand shoveling and applying MicroBlaze™.		 A photograph showing a construction site with large pipes and workers. The ground is dirt and gravel. In the background, there are yellow excavators and a white pickup truck. The scene is outdoors under a clear blue sky.

Photo No.	Date	
6	4/1/2021	
Southeastern facing view of excavation crew hand shoveling and applying MicroBlaze™.		 A photograph showing a construction site with large pipes and workers. The ground is dirt and gravel. In the background, there are large industrial tanks and a yellow excavator. The scene is outdoors under a clear blue sky.



## PHOTOGRAPHIC LOG

XTO Energy, Inc.

Corral Canyon 10E  
Eddy County, New Mexico

TE012921033



ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-328-1

Laboratory Sample Delivery Group: TE012921033

Client Project/Site: Corral Canyon 10 E

For:

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

Attn: Dan Moir

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

Authorized for release by:  
3/23/2021 4:06:05 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto: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: Corral Canyon 10 E

Laboratory Job ID: 890-328-1  
SDG: TE012921033

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## 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: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Job ID: 890-328-1

Laboratory: Eurofins Carlsbad

Narrative	
Job Narrative 890-328-1	

Receipt

The samples were received on 3/11/2021 1:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Subcontract Lab non-Sister Lab

See attached subcontract report.

- 1
- 2
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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Client Sample ID: SS01

Lab Sample ID: 890-328-1

Date Collected: 03/11/21 09:26

Matrix: Solid

Date Received: 03/11/21 13:03

## Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00548		0.00200		mg/kg		03/18/21 08:00	03/18/21 13:43	1
Ethylbenzene	0.00282		0.00200		mg/kg		03/18/21 08:00	03/18/21 13:43	1
m,p-Xylenes	0.0103		0.00400		mg/kg		03/18/21 08:00	03/18/21 13:43	1
o-Xylene	0.00360		0.00200		mg/kg		03/18/21 08:00	03/18/21 13:43	1
Toluene	0.0174		0.00200		mg/kg		03/18/21 08:00	03/18/21 13:43	1
Total BTEX	0.0396		0.00200		mg/kg		03/18/21 08:00	03/18/21 13:43	1
Total Xylenes	0.0139		0.00200		mg/kg		03/18/21 08:00	03/18/21 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130	03/18/21 08:00	03/18/21 13:43	1
4-Bromofluorobenzene	98		70 - 130	03/18/21 08:00	03/18/21 13:43	1

## Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		5.00		mg/kg		03/15/21 11:15	03/15/21 12:36	1

## Method: TPH 8015\_NM\_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	4250		50.0		mg/kg		03/13/21 09:00	03/13/21 19:13	1
Gasoline Range Hydrocarbons (GRO)	2370		50.0		mg/kg		03/13/21 09:00	03/13/21 19:13	1
Motor Oil Range Hydrocarbons (MRO)	271		50.0		mg/kg		03/13/21 09:00	03/13/21 19:13	1
Total TPH	6890		50.0		mg/kg		03/13/21 09:00	03/13/21 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 135	03/13/21 09:00	03/13/21 19:13	1
o-Terphenyl	88		70 - 135	03/13/21 09:00	03/13/21 19:13	1

Client Sample ID: SS02

Lab Sample ID: 890-328-2

Date Collected: 03/11/21 09:31

Matrix: Solid

Date Received: 03/11/21 13:03

## Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	11.2		0.202		mg/kg		03/19/21 16:00	03/20/21 02:50	100
Ethylbenzene	29.2		0.202		mg/kg		03/19/21 16:00	03/20/21 02:50	100
m,p-Xylenes	321	D	4.04		mg/kg		03/19/21 16:00	03/23/21 09:54	1000
o-Xylene	39.2		0.202		mg/kg		03/19/21 16:00	03/20/21 02:50	100
Toluene	236	D	2.02		mg/kg		03/19/21 16:00	03/23/21 09:54	1000
Total BTEX	637		0.202		mg/kg		03/19/21 16:00	03/23/21 09:54	1000
Total Xylenes	360		0.202		mg/kg		03/19/21 16:00	03/23/21 09:54	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	110		70 - 130	03/19/21 16:00	03/20/21 02:50	100
4-Bromofluorobenzene	357	**	70 - 130	03/19/21 16:00	03/20/21 02:50	100

## Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		5.00		mg/kg		03/15/21 11:15	03/15/21 12:41	1

Eurofins Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Client Sample ID: SS02

Lab Sample ID: 890-328-2

Date Collected: 03/11/21 09:31

Matrix: Solid

Date Received: 03/11/21 13:03

## Method: TPH 8015\_NM\_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	14600		250		mg/kg		03/13/21 09:00	03/14/21 08:26	5
Gasoline Range Hydrocarbons (GRO)	8850		250		mg/kg		03/13/21 09:00	03/14/21 08:26	5
Motor Oil Range Hydrocarbons (MRO)	896		250		mg/kg		03/13/21 09:00	03/14/21 08:26	5
Total TPH	24300		250		mg/kg		03/13/21 09:00	03/14/21 08:26	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 135				03/13/21 09:00	03/14/21 08:26	5
o-Terphenyl	98		70 - 135				03/13/21 09:00	03/14/21 08:26	5

Client Sample ID: SS03

Lab Sample ID: 890-328-3

Date Collected: 03/11/21 09:37

Matrix: Solid

Date Received: 03/11/21 13:03

## Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.1		0.198		mg/kg		03/19/21 16:00	03/20/21 03:15	100
Ethylbenzene	29.4		0.198		mg/kg		03/19/21 16:00	03/20/21 03:15	100
m,p-Xylenes	277	D	3.97		mg/kg		03/19/21 16:00	03/23/21 10:15	1000
o-Xylene	70.8	D	0.496		mg/kg		03/19/21 16:00	03/22/21 18:05	250
Toluene	207	D	1.98		mg/kg		03/19/21 16:00	03/23/21 10:15	1000
Total BTEX	596		0.198		mg/kg		03/19/21 16:00	03/23/21 10:15	1000
Total Xylenes	348		0.496		mg/kg		03/19/21 16:00	03/23/21 10:15	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	103		70 - 130				03/19/21 16:00	03/20/21 03:15	100
4-Bromofluorobenzene	377	**	70 - 130				03/19/21 16:00	03/20/21 03:15	100

## Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670		50.0		mg/kg		03/15/21 11:15	03/15/21 12:46	10

## Method: TPH 8015\_NM\_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	6550		49.9		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Gasoline Range Hydrocarbons (GRO)	2690		49.9		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Motor Oil Range Hydrocarbons (MRO)	427		49.9		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Total TPH	9670		49.9		mg/kg		03/13/21 09:00	03/13/21 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 135				03/13/21 09:00	03/13/21 19:55	1
o-Terphenyl	88		70 - 135				03/13/21 09:00	03/13/21 19:55	1

Client Sample ID: SS04

Lab Sample ID: 890-328-4

Date Collected: 03/11/21 09:46

Matrix: Solid

Date Received: 03/11/21 13:03

## Method: BTEX 8021 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.47		0.199		mg/kg		03/19/21 16:00	03/20/21 03:42	100

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Client Sample ID: SS04

Lab Sample ID: 890-328-4

Date Collected: 03/11/21 09:46

Matrix: Solid

Date Received: 03/11/21 13:03

## Method: BTEX 8021 - General Subcontract Method (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	10.9		0.199		mg/kg		03/19/21 16:00	03/20/21 03:42	100
m,p-Xylenes	55.2		0.398		mg/kg		03/19/21 16:00	03/20/21 03:42	100
o-Xylene	15.2		0.199		mg/kg		03/19/21 16:00	03/20/21 03:42	100
Toluene	35.8		0.199		mg/kg		03/19/21 16:00	03/20/21 03:42	100
Total BTEX	120		0.199		mg/kg		03/19/21 16:00	03/20/21 03:42	100
Total Xylenes	70.4		0.199		mg/kg		03/19/21 16:00	03/20/21 03:42	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene	78		70 - 130	03/19/21 16:00	03/20/21 03:42	100
4-Bromofluorobenzene	220	**	70 - 130	03/19/21 16:00	03/20/21 03:42	100

## Method: CHLORIDE E300 - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.6		5.03		mg/kg		03/15/21 11:15	03/15/21 12:51	1

## Method: TPH 8015\_NM\_MOD - General Subcontract Method

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	6510		49.8		mg/kg		03/13/21 09:00	03/13/21 20:16	1
Gasoline Range Hydrocarbons (GRO)	4470		49.8		mg/kg		03/13/21 09:00	03/13/21 20:16	1
Motor Oil Range Hydrocarbons (MRO)	404		49.8		mg/kg		03/13/21 09:00	03/13/21 20:16	1
Total TPH	11400		49.8		mg/kg		03/13/21 09:00	03/13/21 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 135	03/13/21 09:00	03/13/21 20:16	1
o-Terphenyl	96		70 - 135	03/13/21 09:00	03/13/21 20:16	1

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# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-130)
7723678-1-BKS	Lab Control Sample	108
7723678-1-BLK	Method Blank	118
7723678-1-BSD	Lab Control Sample Dup	105
7723710-1-BKS	Lab Control Sample	89
7723710-1-BLK	Method Blank	71
7723710-1-BSD	Lab Control Sample Dup	108

#### Surrogate Legend

BFB = 4-Bromofluorobenzene

## Method: BTEX 8021 - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-130)	DFBZ (70-130)
890-328-1	SS01	98	103
890-328-2	SS02	357 **	110
890-328-3	SS03	377 **	103
890-328-4	SS04	220 **	78

#### Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

## Method: TPH 8015\_NM\_MOD - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO (70-135)	OTPH (70-135)
890-328-1	SS01	122	88
890-328-2	SS02	94	98
890-328-3	SS03	126	88
890-328-4	SS04	129	96

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7723678-1-BLK

Matrix: SOIL

Analysis Batch: 3154177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3154177\_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/18/21 08:00	03/18/21 13:00	1
Ethylbenzene	<.002	U	.002		mg/kg		03/18/21 08:00	03/18/21 13:00	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/18/21 08:00	03/18/21 13:00	1
o-Xylene	<.002	U	.002		mg/kg		03/18/21 08:00	03/18/21 13:00	1
Toluene	<.002	U	.002		mg/kg		03/18/21 08:00	03/18/21 13:00	1

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	118		70 - 130	03/18/21 08:00	03/18/21 13:00	1

Lab Sample ID: 7723678-1-BKS

Matrix: SOIL

Analysis Batch: 3154177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3154177\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.0850		mg/kg		85	70 - 130
Ethylbenzene	.1	0.102		mg/kg		102	71 - 129
m,p-Xylenes	.2	0.207		mg/kg		104	70 - 135
o-Xylene	.1	0.101		mg/kg		101	71 - 133
Toluene	.1	0.0967		mg/kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		70 - 130

Lab Sample ID: 7723678-1-BSD

Matrix: SOIL

Analysis Batch: 3154177

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3154177\_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	.1	0.0829		mg/kg		83	70 - 130	3	35
Ethylbenzene	.1	0.0946		mg/kg		95	71 - 129	8	35
m,p-Xylenes	.2	0.190		mg/kg		95	70 - 135	9	35
o-Xylene	.1	0.0943		mg/kg		94	71 - 133	7	35
Toluene	.1	0.0907		mg/kg		91	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	105		70 - 130

Lab Sample ID: 7723710-1-BLK

Matrix: SOIL

Analysis Batch: 3154309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3154309\_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<.002	U	.002		mg/kg		03/19/21 16:00	03/19/21 23:24	1
Ethylbenzene	<.002	U	.002		mg/kg		03/19/21 16:00	03/19/21 23:24	1
m,p-Xylenes	<.004	U	.004		mg/kg		03/19/21 16:00	03/19/21 23:24	1
o-Xylene	<.002	U	.002		mg/kg		03/19/21 16:00	03/19/21 23:24	1
Toluene	<.002	U	.002		mg/kg		03/19/21 16:00	03/19/21 23:24	1

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 7723710-1-BLK  
Matrix: SOIL  
Analysis Batch: 3154309

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 3154309\_P

Surrogate	BLANK %Recovery	BLANK Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	71		70 - 130	03/19/21 16:00	03/19/21 23:24	1

Lab Sample ID: 7723710-1-BKS  
Matrix: SOIL  
Analysis Batch: 3154309

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 3154309\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	.1	0.108		mg/kg		108	70 - 130
Ethylbenzene	.1	0.0893		mg/kg		89	71 - 129
m,p-Xylenes	.2	0.183		mg/kg		92	70 - 135
o-Xylene	.1	0.0911		mg/kg		91	71 - 133
Toluene	.1	0.0901		mg/kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	89		70 - 130

Lab Sample ID: 7723710-1-BSD  
Matrix: SOIL  
Analysis Batch: 3154309

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 3154309\_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	.1	0.0760		mg/kg		76	70 - 130	35	35
Ethylbenzene	.1	0.0743		mg/kg		74	71 - 129	18	35
m,p-Xylenes	.2	0.154		mg/kg		77	70 - 135	17	35
o-Xylene	.1	0.0762		mg/kg		76	71 - 133	18	35
Toluene	.1	0.0754		mg/kg		75	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	108		70 - 130

## Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7723324-1-BLK  
Matrix: SOIL  
Analysis Batch: 3153669

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 3153669\_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5	U	5		mg/kg		03/15/21 11:15	03/15/21 11:35	1

Lab Sample ID: 7723324-1-BKS  
Matrix: SOIL  
Analysis Batch: 3153669

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 3153669\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244		mg/kg		98	80 - 120

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 7723324-1-BSD

Matrix: SOIL

Analysis Batch: 3153669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153669\_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245		mg/kg		98	80 - 120	0	20

## Method: TPH 8015\_NM\_MOD - General Subcontract Method

Lab Sample ID: 7723335-1-BLK

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3153696\_P

Analyte	BLANK Result	BLANK Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1
Gasoline Range Hydrocarbons (GRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1
Motor Oil Range Hydrocarbons (MRO)	<50	U	50		mg/kg		03/13/21 09:00	03/13/21 12:26	1

Lab Sample ID: 7723335-1-BKS

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3153696\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO)	1000	1110		mg/kg		111	70 - 135
Gasoline Range Hydrocarbons (GRO)	1000	1180		mg/kg		118	70 - 135

Lab Sample ID: 7723335-1-BSD

Matrix: SOIL

Analysis Batch: 3153696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3153696\_P

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	1000	999		mg/kg		100	70 - 135	11	20
Gasoline Range Hydrocarbons (GRO)	1000	1090		mg/kg		109	70 - 135	8	20

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Subcontract

## Analysis Batch: 3153669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-1	SS01	Total/NA	Solid	CHLORIDE E300	3153669_P
890-328-2	SS02	Total/NA	Solid	CHLORIDE E300	3153669_P
890-328-3	SS03	Total/NA	Solid	CHLORIDE E300	3153669_P
890-328-4	SS04	Total/NA	Solid	CHLORIDE E300	3153669_P
7723324-1-BLK	Method Blank	Total/NA	SOIL	CHLORIDE E300	3153669_P
7723324-1-BKS	Lab Control Sample	Total/NA	SOIL	CHLORIDE E300	3153669_P
7723324-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	CHLORIDE E300	3153669_P

## Analysis Batch: 3153696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-1	SS01	Total/NA	Solid	TPH	3153696_P
890-328-2	SS02	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-328-3	SS03	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
890-328-4	SS04	Total/NA	Solid	8015_NM_MOD TPH	3153696_P
7723335-1-BLK	Method Blank	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P
7723335-1-BKS	Lab Control Sample	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P
7723335-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	8015_NM_MOD TPH	3153696_P

## Analysis Batch: 3154177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-1	SS01	Total/NA	Solid	BTEX 8021	3154177_P
7723678-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3154177_P
7723678-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3154177_P
7723678-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3154177_P

## Analysis Batch: 3154309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-2	SS02	Total/NA	Solid	BTEX 8021	3154309_P
890-328-2	SS02	Total/NA	Solid	BTEX 8021	3154309_P
890-328-3	SS03	Total/NA	Solid	BTEX 8021	3154309_P
890-328-3	SS03	Total/NA	Solid	BTEX 8021	3154309_P
890-328-3	SS03	Total/NA	Solid	BTEX 8021	3154309_P
890-328-4	SS04	Total/NA	Solid	BTEX 8021	3154309_P
7723710-1-BLK	Method Blank	Total/NA	SOIL	BTEX 8021	3154309_P
7723710-1-BKS	Lab Control Sample	Total/NA	SOIL	BTEX 8021	3154309_P
7723710-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	BTEX 8021	3154309_P

## Prep Batch: 3153669\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-1	SS01	Total/NA	Solid	E300P	
890-328-2	SS02	Total/NA	Solid	E300P	
890-328-3	SS03	Total/NA	Solid	E300P	
890-328-4	SS04	Total/NA	Solid	E300P	
7723324-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Subcontract (Continued)

## Prep Batch: 3153669\_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
7723324-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723324-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

## Prep Batch: 3153696\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-1	SS01	Total/NA	Solid	SW8015P	
890-328-2	SS02	Total/NA	Solid	SW8015P	
890-328-3	SS03	Total/NA	Solid	SW8015P	
890-328-4	SS04	Total/NA	Solid	SW8015P	
7723335-1-BLK	Method Blank	Total/NA	SOIL	***DEFAULT PREP***	
7723335-1-BKS	Lab Control Sample	Total/NA	SOIL	***DEFAULT PREP***	
7723335-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	***DEFAULT PREP***	

## Prep Batch: 3154177\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-1	SS01	Total/NA	Solid	SW5035A	
7723678-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723678-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723678-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

## Prep Batch: 3154309\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-328-2	SS02	Total/NA	Solid	SW5035A	
890-328-2	SS02	Total/NA	Solid	SW5035A	
890-328-3	SS03	Total/NA	Solid	SW5035A	
890-328-3	SS03	Total/NA	Solid	SW5035A	
890-328-3	SS03	Total/NA	Solid	SW5035A	
890-328-4	SS04	Total/NA	Solid	SW5035A	
7723710-1-BLK	Method Blank	Total/NA	SOIL	SW5035A	
7723710-1-BKS	Lab Control Sample	Total/NA	SOIL	SW5035A	
7723710-1-BSD	Lab Control Sample Dup	Total/NA	SOIL	SW5035A	

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

## Client Sample ID: SS01

## Lab Sample ID: 890-328-1

Date Collected: 03/11/21 09:26

Matrix: Solid

Date Received: 03/11/21 13:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3154177_P	03/18/21 08:00		XM
Total/NA	Analysis	BTEX 8021		1	3154177	03/18/21 13:43	KTL	XM
Total/NA	Prep	E300P		1	3153669_P	03/15/21 11:15		XM
Total/NA	Analysis	CHLORIDE E300		1	3153669	03/15/21 12:36	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 19:13	ARM	XM

## Client Sample ID: SS02

## Lab Sample ID: 890-328-2

Date Collected: 03/11/21 09:31

Matrix: Solid

Date Received: 03/11/21 13:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3154309_P	03/19/21 16:00		XM
Total/NA	Analysis	BTEX 8021		100	3154309	03/20/21 02:50	KTL	XM
Total/NA	Prep	SW5035A		1	3154309_P	03/19/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1000	3154309	03/23/21 09:54	KTL	XM
Total/NA	Prep	E300P		1	3153669_P	03/15/21 11:15		XM
Total/NA	Analysis	CHLORIDE E300		1	3153669	03/15/21 12:41	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		5	3153696	03/14/21 08:26	ARM	XM

## Client Sample ID: SS03

## Lab Sample ID: 890-328-3

Date Collected: 03/11/21 09:37

Matrix: Solid

Date Received: 03/11/21 13:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3154309_P	03/19/21 16:00		XM
Total/NA	Analysis	BTEX 8021		100	3154309	03/20/21 03:15	KTL	XM
Total/NA	Prep	SW5035A		1	3154309_P	03/19/21 16:00		XM
Total/NA	Analysis	BTEX 8021		250	3154309	03/22/21 18:05	KTL	XM
Total/NA	Prep	SW5035A		1	3154309_P	03/19/21 16:00		XM
Total/NA	Analysis	BTEX 8021		1000	3154309	03/23/21 10:15	KTL	XM
Total/NA	Prep	E300P		1	3153669_P	03/15/21 11:15		XM
Total/NA	Analysis	CHLORIDE E300		10	3153669	03/15/21 12:46	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 19:55	ARM	XM

## Client Sample ID: SS04

## Lab Sample ID: 890-328-4

Date Collected: 03/11/21 09:46

Matrix: Solid

Date Received: 03/11/21 13:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SW5035A		1	3154309_P	03/19/21 16:00		XM
Total/NA	Analysis	BTEX 8021		100	3154309	03/20/21 03:42	KTL	XM

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Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

**Client Sample ID: SS04**  
**Date Collected: 03/11/21 09:46**  
**Date Received: 03/11/21 13:03**

**Lab Sample ID: 890-328-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	E300P		1	3153669_P	03/15/21 11:15		XM
Total/NA	Analysis	CHLORIDE E300		1	3153669	03/15/21 12:51	CHE	XM
Total/NA	Prep	SW8015P		1	3153696_P	03/13/21 09:00		XM
Total/NA	Analysis	TPH 8015_NM_MOD		1	3153696	03/13/21 20:16	ARM	XM

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Laboratory: Eurofins Midland

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

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

- 1
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Method Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Method	Method Description	Protocol	Laboratory
Subcontract	BTEX 8021	None	XM
Subcontract	CHLORIDE E300	None	XM
Subcontract	TPH 8015_NM_MOD	None	XM

Protocol References:  
None = None

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

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Sample Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10 E

Job ID: 890-328-1  
SDG: TE012921033

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-328-1	SS01	Solid	03/11/21 09:26	03/11/21 13:03	
890-328-2	SS02	Solid	03/11/21 09:31	03/11/21 13:03	
890-328-3	SS03	Solid	03/11/21 09:37	03/11/21 13:03	
890-328-4	SS04	Solid	03/11/21 09:46	03/11/21 13:03	

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

## Chain of Custody

Work Order No: \_\_\_\_\_

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Project Manager: Dan Moir Bill to: (if different) Kyle Littlell

Company Name: WSP USA Company Name: XTO Energy

Address: 3300 North A Street Address: 522 W. Mermod St.

City, State ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM 88220

Phone: (432) 236-3849 Email: jeremy.hill@wsp.com, Dan.Moir@wsp.com

## Work Order Comments

Program: ☐ UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund

State of Project:

Reporting Level: ☐ Level II ☐ Level III ☐ BT/UST ☐ RP ☐ Level IV

Deliverables: EDD ☐ ADAPT ☐ Other: \_\_\_\_\_

## ANALYSIS REQUEST

## Work Order Notes

Project Name: Cerul Canyon 10E Turn Around

Project Number: 76010121033 Routine ☒

P.O. Number: 5011 date: 2/5/21 Rush: \_\_\_\_\_

Sampler's Name: Jeremy Hill Due Date: \_\_\_\_\_

Temperature (°C): 14/1.2 Temp Blank: ☒ Yes ☐ No Wet Ice: ☒ Yes ☐ No

Received Intact: ☒ Yes ☐ No Thermometer ID: 2N IV-807

Cooler Custody Seals: ☒ Yes ☐ No Correction Factor: -0.2

Sample Custody Seals: ☒ Yes ☐ No Total Containers: 4



890-328 Chain of Custody

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

## Sample Comments

Discrete

Sample Identification Matrix Date Sampled Time Sampled Depth

SS01 5 3/11/21 0926 0.3'

SS02 1 0131 0.3'

SS03 1 0937 0.3'

SS04 1 0946 0.3'

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

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

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

1 *[Signature]* *[Signature]* 3-11-21 1301 2

3 *[Signature]* *[Signature]* 4

5 *[Signature]* *[Signature]* 6

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-328-1

SDG Number: TE012921033

Login Number: 328

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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



Environment Testing  
America

## ANALYTICAL REPORT

Job Number: 890-482-1

SDG Number: Eddy

Job Description: Corral Canyon 10E TE012921033

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

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

Approved for release.  
Jessica Kramer  
Project Manager  
4/6/2021 8:53 PM

---

Jessica Kramer, Project Manager  
1211 W. Florida Ave, Midland, TX, 79701  
jessica.kramer@eurofinset.com  
04/06/2021

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

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

**Eurofins Xenco, Carlsbad**

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 [www.EurofinsUS.com](http://www.EurofinsUS.com)



## Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

<b>Lab Sample ID:</b>	890-482-1	890-482-2	890-482-3	890-482-4	890-482-5
<b>Client Sample ID:</b>	FS01	FS02	FS03	FS04	FS05
<b>Depth:</b>	1.5	1.5	1.5	1.5	1.5
<b>Matrix:</b>	Solid	Solid	Solid	Solid	Solid
<b>Date Collected:</b>	04/01/2021 09:00	04/01/2021 09:07	04/01/2021 11:06	04/01/2021 12:18	04/01/2021 12:30

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

	<b>Prepared:</b>	04/03/2021 13:57	04/03/2021 13:57	04/03/2021 13:57	04/06/2021 11:00	04/06/2021 11:00					
	<b>Analyzed:</b>	04/04/2021 00:25	04/04/2021 00:46	04/04/2021 01:06	04/06/2021 13:50	04/06/2021 14:11					
<b>Analyte</b>	<b>Unit/RL:</b>	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL		
Benzene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	0.00204	0.00201	<0.00202 U	0.00202
Toluene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00202 U	0.00202
Ethylbenzene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00201 U	0.00201	<0.00202 U	0.00202
m-Xylene & p-Xylene		<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00402 U	0.00402	0.00782	0.00404
o-Xylene		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00201 U	0.00201	0.00327	0.00202
Xylenes, Total		<0.00398 U	0.00398	<0.00398 U	0.00398	<0.00399 U	0.00399	<0.00402 U	0.00402	0.0111	0.00404
Total BTEX		<0.00199 U	0.00199	<0.00199 U	0.00199	<0.00200 U	0.00200	0.00204	0.00201	0.0111	0.00202

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

	<b>Prepared:</b>	04/03/2021 10:28		04/03/2021 10:28		04/03/2021 10:28		04/03/2021 10:28		04/03/2021 10:28	
	<b>Analyzed:</b>	04/03/2021 22:25		04/03/2021 23:29		04/03/2021 23:49		04/04/2021 00:10		04/04/2021 00:31	
<b>Analyte</b>	<b>Unit/RL:</b>	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<49.9 U	49.9	55.4 B	49.9	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0
Diesel Range Organics (Over C10-C28)		222	49.9	374	49.9	<49.9 U	49.9	<50.0 U	50.0	71.2	50.0
Oil Range Organics (Over C28-C36)		<49.9 U	49.9	<49.9 U	49.9	<49.9 U	49.9	<50.0 U	50.0	<50.0 U	50.0
Total TPH		222 B	49.9	429 B	49.9	<49.9 U	49.9	<50.0 U	50.0	71.2 B	50.0

## Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed: 04/05/2021 15:58		04/05/2021 16:13		04/05/2021 16:18		04/05/2021 18:21		04/05/2021 18:38		
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		19.7	5.02	51.8	5.04	52.1	4.98	48.7	4.99	60.0	5.01

## Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

<b>Lab Sample ID:</b> 890-482-6	890-482-7	890-482-8	890-482-9	890-482-10
<b>Client Sample ID:</b> FS06	FS07	FS08	PH01	PH01 A
<b>Depth:</b> 1	1	1	2	4
<b>Matrix:</b> Solid	Solid	Solid	Solid	Solid
<b>Date Collected:</b> 04/01/2021 10:38	04/01/2021 10:39	04/01/2021 13:43	04/01/2021 14:04	04/01/2021 14:09

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

<b>Prepared:</b> 04/06/2021 11:00	04/06/2021 11:00	04/06/2021 11:00	04/06/2021 11:00	04/06/2021 11:15
<b>Analyzed:</b> 04/06/2021 14:32	04/06/2021 14:52	04/06/2021 15:13	04/06/2021 15:34	04/06/2021 14:24
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<b>0.00202</b> 0.00198	<b>0.00239</b> 0.00199	<0.00198 U 0.00198
				<0.00200 U 0.00200
Toluene	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00199 U 0.00199	<b>0.00325</b> 0.00198
Ethylbenzene	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00199 U 0.00199	<0.00198 U 0.00198
m-Xylene & p-Xylene	<0.00401 U 0.00401	<b>0.00646</b> 0.00396	<b>0.0160</b> 0.00398	<b>0.0169</b> 0.00397
o-Xylene	<0.00200 U 0.00200	<b>0.00714</b> 0.00198	<b>0.00750</b> 0.00199	<b>0.0115</b> 0.00198
Xylenes, Total	<0.00401 U 0.00401	<b>0.0136</b> 0.00396	<b>0.0235</b> 0.00398	<b>0.0284</b> 0.00397
Total BTEX	<0.00200 U 0.00200	<b>0.0156</b> 0.00198	<b>0.0259</b> 0.00199	<b>0.0317</b> 0.00198
				<b>0.00236 *-</b> 0.00200
				<b>0.00877 *-</b> 0.00401
				<b>0.00341</b> 0.00200
				<b>0.0122 *-</b> 0.00401
				<b>0.0145 *-</b> 0.00200
				<b>*1</b>

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

<b>Prepared:</b> 04/03/2021 10:28	04/03/2021 10:28	04/03/2021 10:28	04/03/2021 10:28	04/03/2021 10:28
<b>Analyzed:</b> 04/04/2021 00:52	04/04/2021 01:13	04/04/2021 01:33	04/04/2021 01:54	04/04/2021 02:15
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U 49.9	<49.9 U 49.9	<49.8 U 49.8	<50.0 U 50.0
Diesel Range Organics (Over C10-C28)	<49.9 U 49.9	<b>100</b> 49.9	<b>109</b> 49.8	<50.0 U 50.0
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<49.9 U 49.9	<49.8 U 49.8	<50.0 U 50.0
Total TPH	<49.9 U 49.9	<b>100 B</b> 49.9	<b>109 B</b> 49.8	<50.0 U 50.0
				<49.9 U 49.9

## Method: 300.0 - Anions, Ion Chromatography - Soluble

<b>Prepared:</b>				
<b>Analyzed:</b> 04/05/2021 18:43	04/05/2021 18:49	04/05/2021 18:54	04/05/2021 19:00	04/05/2021 19:06
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	<b>123</b> 5.03	<b>82.1</b> 5.05	<b>43.8</b> 5.04	<b>9.20</b> 5.04
				<b>7.05</b> 4.96

## Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

<b>Lab Sample ID:</b> 890-482-11	890-482-12	890-482-13	890-482-14
<b>Client Sample ID:</b> PH02	PH02 A	PH03	PH03 A
<b>Depth:</b> 2	4	2	4
<b>Matrix:</b> Solid	Solid	Solid	Solid
<b>Date Collected:</b> 04/01/2021 09:00	04/01/2021 09:07	04/01/2021 11:06	04/01/2021 12:18

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

	<b>Prepared:</b> 04/06/2021 11:15	04/06/2021 11:15	04/06/2021 11:15	04/06/2021 11:15
	<b>Analyzed:</b> 04/06/2021 14:44	04/06/2021 15:05	04/06/2021 15:25	04/06/2021 15:46
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00202 U 0.00202	<0.00198 U 0.00198	<0.00200 U 0.00200	<0.00200 U 0.00200
	*_	*_	*_	*_
Toluene	<0.00202 U 0.00202	<0.00198 U 0.00198	<0.00200 U 0.00200	<0.00200 U 0.00200
	*_	*_	*_	*_
Ethylbenzene	<0.00202 U 0.00202	<0.00198 U 0.00198	<0.00200 U 0.00200	<0.00200 U 0.00200
m-Xylene & p-Xylene	<0.00404 U 0.00404	<0.00396 U 0.00396	<b>0.0134 *-</b> 0.00399	<0.00399 U 0.00399
	*_	*_		*_
o-Xylene	<0.00202 U 0.00202	<0.00198 U 0.00198	<b>0.0602</b> 0.00200	<0.00200 U 0.00200
Xylenes, Total	<0.00404 U 0.00404	<0.00396 U 0.00396	<b>0.0736 *-</b> 0.00399	<0.00399 U 0.00399
	*_	*_		*_
Total BTEX	<0.00202 U 0.00202	<0.00198 U 0.00198	<b>0.0736 *-</b> 0.00200	<0.00200 U 0.00200
	*_ *1	*_ *1	<b>*1</b>	*_ *1

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

	<b>Prepared:</b> 04/03/2021 10:28	04/03/2021 10:28	04/03/2021 10:28	04/03/2021 10:28
	<b>Analyzed:</b> 04/04/2021 02:57	04/04/2021 03:18	04/04/2021 03:39	04/04/2021 04:00
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.7 U 49.7	<49.9 U 49.9	<49.8 U 49.8	<49.9 U 49.9
Diesel Range Organics (Over C10-C28)	<49.7 U 49.7	<49.9 U 49.9	<49.8 U 49.8	<49.9 U 49.9
Oil Range Organics (Over C28-C36)	<49.7 U 49.7	<49.9 U 49.9	<49.8 U 49.8	<49.9 U 49.9
Total TPH	<49.7 U 49.7	<49.9 U 49.9	<49.8 U 49.8	<49.9 U 49.9

## Method: 300.0 - Anions, Ion Chromatography - Soluble

	<b>Prepared:</b>			
	<b>Analyzed:</b> 04/05/2021 19:22	04/05/2021 19:28	04/06/2021 09:17	04/05/2021 19:50
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	<b>226</b> 4.96	<b>46.6</b> 4.99	<b>59.3</b> 5.02	<b>9.09</b> 5.04



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-482-1

Laboratory Sample Delivery Group: Eddy

Client Project/Site: Corral Canyon 10E TE012921033

**For:**

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

Attn: Dan Moir

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

Authorized for release by:  
4/6/2021 8:53:33 PM

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

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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: Corral Canyon 10E TE012921033

Laboratory Job ID: 890-482-1  
SDG: Eddy

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## Definitions/Glossary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

Job ID: 890-482-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative	
	Job Narrative 890-482-1

Receipt

The samples were received on 4/2/2021 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

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.

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## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

Client Sample ID: FS01

Lab Sample ID: 890-482-1

Date Collected: 04/01/21 09:00

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/21 13:57	04/04/21 00:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/21 13:57	04/04/21 00:25	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/03/21 13:57	04/04/21 00:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/03/21 13:57	04/04/21 00:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 22:25	1
Diesel Range Organics (Over C10-C28)	222		49.9	mg/Kg		04/03/21 10:28	04/03/21 22:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 22:25	1
Total TPH	222	B	49.9	mg/Kg		04/03/21 10:28	04/03/21 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	04/03/21 10:28	04/03/21 22:25	1
o-Terphenyl	98		70 - 130	04/03/21 10:28	04/03/21 22:25	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		5.02	mg/Kg			04/05/21 15:58	1

Client Sample ID: FS02

Lab Sample ID: 890-482-2

Date Collected: 04/01/21 09:07

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/21 13:57	04/04/21 00:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/21 13:57	04/04/21 00:46	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/03/21 13:57	04/04/21 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/03/21 13:57	04/04/21 00:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/03/21 13:57	04/04/21 00:46	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## Client Sample ID: FS02

## Lab Sample ID: 890-482-2

Date Collected: 04/01/21 09:07

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	55.4	B	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:29	1
Diesel Range Organics (Over C10-C28)	374		49.9	mg/Kg		04/03/21 10:28	04/03/21 23:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:29	1
Total TPH	429	B	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/03/21 10:28	04/03/21 23:29	1
o-Terphenyl	92		70 - 130	04/03/21 10:28	04/03/21 23:29	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		5.04	mg/Kg			04/05/21 16:13	1

## Client Sample ID: FS03

## Lab Sample ID: 890-482-3

Date Collected: 04/01/21 11:06

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/04/21 01:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/04/21 01:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/04/21 01:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/03/21 13:57	04/04/21 01:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/04/21 01:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/03/21 13:57	04/04/21 01:06	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/04/21 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/03/21 13:57	04/04/21 01:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/03/21 13:57	04/04/21 01:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:49	1
Total TPH	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/03/21 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/03/21 10:28	04/03/21 23:49	1
o-Terphenyl	95		70 - 130	04/03/21 10:28	04/03/21 23:49	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.1		4.98	mg/Kg			04/05/21 16:18	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

Client Sample ID: FS04

Lab Sample ID: 890-482-4

Date Collected: 04/01/21 12:18

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00204		0.00201	mg/Kg		04/06/21 11:00	04/06/21 13:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/06/21 11:00	04/06/21 13:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/06/21 11:00	04/06/21 13:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/06/21 11:00	04/06/21 13:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/06/21 11:00	04/06/21 13:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/06/21 11:00	04/06/21 13:50	1
Total BTEX	0.00204		0.00201	mg/Kg		04/06/21 11:00	04/06/21 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/06/21 11:00	04/06/21 13:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/06/21 11:00	04/06/21 13:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:10	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/03/21 10:28	04/04/21 00:10	1
o-Terphenyl	102		70 - 130	04/03/21 10:28	04/04/21 00:10	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.7		4.99	mg/Kg			04/05/21 18:21	1

Client Sample ID: FS05

Lab Sample ID: 890-482-5

Date Collected: 04/01/21 12:30

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/06/21 11:00	04/06/21 14:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/06/21 11:00	04/06/21 14:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/06/21 11:00	04/06/21 14:11	1
m-Xylene & p-Xylene	0.00782		0.00404	mg/Kg		04/06/21 11:00	04/06/21 14:11	1
o-Xylene	0.00327		0.00202	mg/Kg		04/06/21 11:00	04/06/21 14:11	1
Xylenes, Total	0.0111		0.00404	mg/Kg		04/06/21 11:00	04/06/21 14:11	1
Total BTEX	0.0111		0.00202	mg/Kg		04/06/21 11:00	04/06/21 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	04/06/21 11:00	04/06/21 14:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/06/21 11:00	04/06/21 14:11	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## Client Sample ID: FS05

## Lab Sample ID: 890-482-5

Date Collected: 04/01/21 12:30

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:31	1
Diesel Range Organics (Over C10-C28)	71.2		50.0	mg/Kg		04/03/21 10:28	04/04/21 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:31	1
Total TPH	71.2	B	50.0	mg/Kg		04/03/21 10:28	04/04/21 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/03/21 10:28	04/04/21 00:31	1
o-Terphenyl	97		70 - 130	04/03/21 10:28	04/04/21 00:31	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.0		5.01	mg/Kg			04/05/21 18:38	1

## Client Sample ID: FS06

## Lab Sample ID: 890-482-6

Date Collected: 04/01/21 10:38

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 14:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 14:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 14:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/06/21 11:00	04/06/21 14:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 14:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/06/21 11:00	04/06/21 14:32	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/06/21 11:00	04/06/21 14:32	1
1,4-Difluorobenzene (Surr)	114		70 - 130	04/06/21 11:00	04/06/21 14:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 00:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 00:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 00:52	1
Total TPH	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/03/21 10:28	04/04/21 00:52	1
o-Terphenyl	98		70 - 130	04/03/21 10:28	04/04/21 00:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.03	mg/Kg			04/05/21 18:43	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

Client Sample ID: FS07

Lab Sample ID: 890-482-7

Date Collected: 04/01/21 10:39

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00202		0.00198	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
m-Xylene & p-Xylene	0.00646		0.00396	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
o-Xylene	0.00714		0.00198	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
Xylenes, Total	0.0136		0.00396	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
Total BTEX	0.0156		0.00198	mg/Kg		04/06/21 11:00	04/06/21 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			04/06/21 11:00	04/06/21 14:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/06/21 11:00	04/06/21 14:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 01:13	1
Diesel Range Organics (Over C10-C28)	100		49.9	mg/Kg		04/03/21 10:28	04/04/21 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 01:13	1
Total TPH	100	B	49.9	mg/Kg		04/03/21 10:28	04/04/21 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			04/03/21 10:28	04/04/21 01:13	1
o-Terphenyl	103		70 - 130			04/03/21 10:28	04/04/21 01:13	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.1		5.05	mg/Kg			04/05/21 18:49	1

Client Sample ID: FS08

Lab Sample ID: 890-482-8

Date Collected: 04/01/21 13:43

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00239		0.00199	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
m-Xylene & p-Xylene	0.0160		0.00398	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
o-Xylene	0.00750		0.00199	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
Xylenes, Total	0.0235		0.00398	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
Total BTEX	0.0259		0.00199	mg/Kg		04/06/21 11:00	04/06/21 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			04/06/21 11:00	04/06/21 15:13	1
1,4-Difluorobenzene (Surr)	95		70 - 130			04/06/21 11:00	04/06/21 15:13	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## Client Sample ID: FS08

## Lab Sample ID: 890-482-8

Date Collected: 04/01/21 13:43

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/03/21 10:28	04/04/21 01:33	1
Diesel Range Organics (Over C10-C28)	109		49.8	mg/Kg		04/03/21 10:28	04/04/21 01:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/03/21 10:28	04/04/21 01:33	1
Total TPH	109	B	49.8	mg/Kg		04/03/21 10:28	04/04/21 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	04/03/21 10:28	04/04/21 01:33	1
o-Terphenyl	100		70 - 130	04/03/21 10:28	04/04/21 01:33	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.8		5.04	mg/Kg			04/05/21 18:54	1

## Client Sample ID: PH01

## Lab Sample ID: 890-482-9

Date Collected: 04/01/21 14:04

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/06/21 11:00	04/06/21 15:34	1
Toluene	0.00325		0.00198	mg/Kg		04/06/21 11:00	04/06/21 15:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/06/21 11:00	04/06/21 15:34	1
m-Xylene & p-Xylene	0.0169		0.00397	mg/Kg		04/06/21 11:00	04/06/21 15:34	1
o-Xylene	0.0115		0.00198	mg/Kg		04/06/21 11:00	04/06/21 15:34	1
Xylenes, Total	0.0284		0.00397	mg/Kg		04/06/21 11:00	04/06/21 15:34	1
Total BTEX	0.0317		0.00198	mg/Kg		04/06/21 11:00	04/06/21 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/06/21 11:00	04/06/21 15:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/06/21 11:00	04/06/21 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 01:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 01:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 01:54	1
Total TPH	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/04/21 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/03/21 10:28	04/04/21 01:54	1
o-Terphenyl	83		70 - 130	04/03/21 10:28	04/04/21 01:54	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.20		5.04	mg/Kg			04/05/21 19:00	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

Client Sample ID: PH01 A

Lab Sample ID: 890-482-10

Date Collected: 04/01/21 14:09

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:24	1
Toluene	0.00236	*-	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:24	1
m-Xylene & p-Xylene	0.00877	*-	0.00401	mg/Kg		04/06/21 11:15	04/06/21 14:24	1
o-Xylene	0.00341		0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:24	1
Xylenes, Total	0.0122	*-	0.00401	mg/Kg		04/06/21 11:15	04/06/21 14:24	1
Total BTEX	0.0145	*- *1	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/06/21 11:15	04/06/21 14:24	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/06/21 11:15	04/06/21 14:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 02:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 02:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 02:15	1
Total TPH	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	04/03/21 10:28	04/04/21 02:15	1
o-Terphenyl	104		70 - 130	04/03/21 10:28	04/04/21 02:15	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.05		4.96	mg/Kg			04/05/21 19:06	1

Client Sample ID: PH02

Lab Sample ID: 890-482-11

Date Collected: 04/01/21 09:00

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202	mg/Kg		04/06/21 11:15	04/06/21 14:44	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		04/06/21 11:15	04/06/21 14:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/06/21 11:15	04/06/21 14:44	1
m-Xylene & p-Xylene	<0.00404	U *-	0.00404	mg/Kg		04/06/21 11:15	04/06/21 14:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/06/21 11:15	04/06/21 14:44	1
Xylenes, Total	<0.00404	U *-	0.00404	mg/Kg		04/06/21 11:15	04/06/21 14:44	1
Total BTEX	<0.00202	U *- *1	0.00202	mg/Kg		04/06/21 11:15	04/06/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/06/21 11:15	04/06/21 14:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/06/21 11:15	04/06/21 14:44	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

## Client Sample ID: PH02

## Lab Sample ID: 890-482-11

Date Collected: 04/01/21 09:00

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/03/21 10:28	04/04/21 02:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		04/03/21 10:28	04/04/21 02:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/03/21 10:28	04/04/21 02:57	1
Total TPH	<49.7	U	49.7	mg/Kg		04/03/21 10:28	04/04/21 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/03/21 10:28	04/04/21 02:57	1
o-Terphenyl	109		70 - 130	04/03/21 10:28	04/04/21 02:57	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		4.96	mg/Kg			04/05/21 19:22	1

## Client Sample ID: PH02 A

## Lab Sample ID: 890-482-12

Date Collected: 04/01/21 09:07

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *	0.00198	mg/Kg		04/06/21 11:15	04/06/21 15:05	1
Toluene	<0.00198	U *	0.00198	mg/Kg		04/06/21 11:15	04/06/21 15:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/06/21 11:15	04/06/21 15:05	1
m-Xylene & p-Xylene	<0.00396	U *	0.00396	mg/Kg		04/06/21 11:15	04/06/21 15:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/06/21 11:15	04/06/21 15:05	1
Xylenes, Total	<0.00396	U *	0.00396	mg/Kg		04/06/21 11:15	04/06/21 15:05	1
Total BTEX	<0.00198	U * - *1	0.00198	mg/Kg		04/06/21 11:15	04/06/21 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/06/21 11:15	04/06/21 15:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/06/21 11:15	04/06/21 15:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 03:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 03:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 03:18	1
Total TPH	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	04/03/21 10:28	04/04/21 03:18	1
o-Terphenyl	105		70 - 130	04/03/21 10:28	04/04/21 03:18	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.6		4.99	mg/Kg			04/05/21 19:28	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

Client Sample ID: PH03

Lab Sample ID: 890-482-13

Date Collected: 04/01/21 11:06

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:25	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:25	1
m-Xylene & p-Xylene	0.0134	*-	0.00399	mg/Kg		04/06/21 11:15	04/06/21 15:25	1
o-Xylene	0.0602		0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:25	1
Xylenes, Total	0.0736	*-	0.00399	mg/Kg		04/06/21 11:15	04/06/21 15:25	1
Total BTEX	0.0736	*- *1	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/06/21 11:15	04/06/21 15:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/06/21 11:15	04/06/21 15:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/03/21 10:28	04/04/21 03:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/03/21 10:28	04/04/21 03:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/03/21 10:28	04/04/21 03:39	1
Total TPH	<49.8	U	49.8	mg/Kg		04/03/21 10:28	04/04/21 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	04/03/21 10:28	04/04/21 03:39	1
o-Terphenyl	91		70 - 130	04/03/21 10:28	04/04/21 03:39	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.3		5.02	mg/Kg			04/06/21 09:17	1

Client Sample ID: PH03 A

Lab Sample ID: 890-482-14

Date Collected: 04/01/21 12:18

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:46	1
Toluene	<0.00200	U *-	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:46	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399	mg/Kg		04/06/21 11:15	04/06/21 15:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:46	1
Xylenes, Total	<0.00399	U *-	0.00399	mg/Kg		04/06/21 11:15	04/06/21 15:46	1
Total BTEX	<0.00200	U *- *1	0.00200	mg/Kg		04/06/21 11:15	04/06/21 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/06/21 11:15	04/06/21 15:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/06/21 11:15	04/06/21 15:46	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

Client Sample ID: PH03 A

Lab Sample ID: 890-482-14

Date Collected: 04/01/21 12:18

Matrix: Solid

Date Received: 04/02/21 09:07

Sample Depth: - 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 04:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 04:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 04:00	1
Total TPH	<49.9	U	49.9	mg/Kg		04/03/21 10:28	04/04/21 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	04/03/21 10:28	04/04/21 04:00	1
o-Terphenyl	100		70 - 130	04/03/21 10:28	04/04/21 04:00	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.09		5.04	mg/Kg			04/05/21 19:50	1

## Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## 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)
890-482-1	FS01	108	102
890-482-2	FS02	112	100
890-482-3	FS03	108	101
890-482-4	FS04	95	102
890-482-4 MS	FS04	97	106
890-482-4 MSD	FS04	95	102
890-482-5	FS05	93	98
890-482-6	FS06	100	114
890-482-7	FS07	103	100
890-482-8	FS08	99	95
890-482-9	PH01	98	108
890-482-10	PH01 A	112	105
890-482-10 MS	PH01 A	128	110
890-482-10 MSD	PH01 A	120	111
890-482-11	PH02	107	104
890-482-12	PH02 A	115	99
890-482-13	PH03	114	101
890-482-14	PH03 A	111	101
LCS 880-1250/1-A	Lab Control Sample	102	98
LCS 880-1284/1-A	Lab Control Sample	99	98
LCS 880-1365/1-A	Lab Control Sample	93	109
LCS 880-1366/1-A	Lab Control Sample	43 S1-	100
LCSD 880-1250/2-A	Lab Control Sample Dup	101	99
LCSD 880-1284/2-A	Lab Control Sample Dup	101	98
LCSD 880-1365/2-A	Lab Control Sample Dup	104	108
LCSD 880-1366/2-A	Lab Control Sample Dup	96	99
MB 880-1284/5-A	Method Blank	106	99
MB 880-1365/5-A	Method Blank	110	98
MB 880-1366/5-A	Method Blank	101	103
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-482-1	FS01	118	98
890-482-1 MS	FS01	117	95
890-482-1 MSD	FS01	117	92
890-482-2	FS02	110	92
890-482-3	FS03	109	95
890-482-4	FS04	117	102
890-482-5	FS05	111	97
890-482-6	FS06	115	98
890-482-7	FS07	117	103
890-482-8	FS08	114	100

Eurofins Xenco, Carlsbad

## Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-482-9	PH01	95	83
890-482-10	PH01 A	121	104
890-482-11	PH02	120	109
890-482-12	PH02 A	118	105
890-482-13	PH03	107	91
890-482-14	PH03 A	113	100
LCS 880-1271/2-A	Lab Control Sample	113	94
LCSD 880-1271/3-A	Lab Control Sample Dup	117	92
MB 880-1271/1-A	Method Blank	109	102
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

Lab Sample ID: LCS 880-1250/1-A

Matrix: Solid

Analysis Batch: 1285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09809		mg/Kg		98	70 - 130
Toluene	0.100	0.1003		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2104		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-1250/2-A

Matrix: Solid

Analysis Batch: 1285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1250

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1002		mg/Kg		100	70 - 130	2	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2165		mg/Kg		108	70 - 130	3	35
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-1284/5-A

Matrix: Solid

Analysis Batch: 1285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1284

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/03/21 18:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/03/21 18:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/03/21 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/03/21 13:57	04/03/21 18:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/03/21 18:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/03/21 13:57	04/03/21 18:01	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/03/21 13:57	04/03/21 18:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/03/21 13:57	04/03/21 18:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/03/21 13:57	04/03/21 18:01	1

Lab Sample ID: LCS 880-1284/1-A

Matrix: Solid

Analysis Batch: 1285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09781		mg/Kg		98	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

Lab Sample ID: LCS 880-1284/1-A

Matrix: Solid

Analysis Batch: 1285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2166		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-1284/2-A

Matrix: Solid

Analysis Batch: 1285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1284

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09935		mg/Kg		99	70 - 130	2	35
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	0	35
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-1365/5-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1365

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 11:00	04/06/21 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 11:00	04/06/21 13:28	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 11:00	04/06/21 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/06/21 11:00	04/06/21 13:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/06/21 11:00	04/06/21 13:28	1

Lab Sample ID: LCS 880-1365/1-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08786		mg/Kg		88	70 - 130
Toluene	0.100	0.09506		mg/Kg		95	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

Lab Sample ID: LCS 880-1365/1-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1365

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.08930		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1900		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09434		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-1365/2-A

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1365

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09986		mg/Kg		100	70 - 130	13	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	12	35
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.2189		mg/Kg		109	70 - 130	14	35
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-482-4 MS

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: FS04

Prep Type: Total/NA

Prep Batch: 1365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00204		0.0992	0.09796		mg/Kg		97	70 - 130
Toluene	<0.00201	U	0.0992	0.1051		mg/Kg		106	70 - 130
Ethylbenzene	<0.00201	U	0.0992	0.09817		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2007		mg/Kg		100	70 - 130
o-Xylene	<0.00201	U	0.0992	0.09587		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-482-4 MSD

Matrix: Solid

Analysis Batch: 1367

Client Sample ID: FS04

Prep Type: Total/NA

Prep Batch: 1365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.00204		0.0996	0.1005		mg/Kg		99	70 - 130	3	35
Toluene	<0.00201	U	0.0996	0.1030		mg/Kg		103	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.0996	0.09249		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1915		mg/Kg		95	70 - 130	5	35
o-Xylene	<0.00201	U	0.0996	0.09718		mg/Kg		98	70 - 130	1	35

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-1366/5-A

Matrix: Solid

Analysis Batch: 1370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1366

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	
Toluene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/06/21 11:15	04/06/21 14:03	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	101		70 - 130	04/06/21 11:15	04/06/21 14:03	1			
1,4-Difluorobenzene (Surr)	103		70 - 130	04/06/21 11:15	04/06/21 14:03	1			

Lab Sample ID: LCS 880-1366/1-A

Matrix: Solid

Analysis Batch: 1370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1366

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.06402	*-	mg/Kg		64	70 - 130		
Toluene	0.100	0.06561	*-	mg/Kg		66	70 - 130		
Ethylbenzene	0.100	0.07083		mg/Kg		71	70 - 130		
m-Xylene & p-Xylene	0.200	0.1361	*-	mg/Kg		68	70 - 130		
o-Xylene	0.100	0.06966		mg/Kg		70	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	43	S1-	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-1366/2-A

Matrix: Solid

Analysis Batch: 1370

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1366

	Spike	LCSD	LCSD					%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07971		mg/Kg		80	70 - 130	22	35	
Toluene	0.100	0.08039		mg/Kg		80	70 - 130	20	35	
Ethylbenzene	0.100	0.08733		mg/Kg		87	70 - 130	21	35	
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130	21	35	
o-Xylene	0.100	0.08510		mg/Kg		85	70 - 130	20	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

Lab Sample ID: 890-482-10 MS

Matrix: Solid

Analysis Batch: 1370

Client Sample ID: PH01 A

Prep Type: Total/NA

Prep Batch: 1366

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U *-	0.0998	0.1247		mg/Kg		124	70 - 130
Toluene	0.00236	*-	0.0998	0.1136		mg/Kg		111	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1107		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.00877	*-	0.200	0.2299		mg/Kg		111	70 - 130
o-Xylene	0.00341		0.0998	0.1266		mg/Kg		123	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	128		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 890-482-10 MSD

Matrix: Solid

Analysis Batch: 1370

Client Sample ID: PH01 A

Prep Type: Total/NA

Prep Batch: 1366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U *-	0.0990	0.1164		mg/Kg		117	70 - 130	7	35
Toluene	0.00236	*-	0.0990	0.1055		mg/Kg		104	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.0990	0.09945		mg/Kg		100	70 - 130	11	35
m-Xylene & p-Xylene	0.00877	*-	0.198	0.2050		mg/Kg		99	70 - 130	11	35
o-Xylene	0.00341		0.0990	0.1123		mg/Kg		110	70 - 130	12	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	120		70 - 130								
1,4-Difluorobenzene (Surr)	111		70 - 130								

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

Lab Sample ID: MB 880-1271/1-A

Matrix: Solid

Analysis Batch: 1267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1271

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	243.0		50.0	mg/Kg		04/03/21 10:28	04/03/21 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/03/21 21:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/03/21 10:28	04/03/21 21:22	1
Total TPH	243.0		50.0	mg/Kg		04/03/21 10:28	04/03/21 21:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			04/03/21 10:28	04/03/21 21:22	1
o-Terphenyl	102		70 - 130			04/03/21 10:28	04/03/21 21:22	1

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

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

Lab Sample ID: LCS 880-1271/2-A

Matrix: Solid

Analysis Batch: 1267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1271

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	1202		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		101	70 - 130		

Lab Sample ID: LCSD 880-1271/3-A

Matrix: Solid

Analysis Batch: 1267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1271

			Spike	LCSD	LCSD				%Rec.			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1234		mg/Kg		123	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	1014		mg/Kg		101	70 - 130	0	20	

Lab Sample ID: 890-482-1 MS

Matrix: Solid

Analysis Batch: 1267

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 1271

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1177		mg/Kg		118	70 - 130		
Diesel Range Organics (Over C10-C28)	222		1000	1017		mg/Kg		79	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: 890-482-1 MSD

Matrix: Solid

Analysis Batch: 1267

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 1271

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1129		mg/Kg		113	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	222		998	1019		mg/Kg		80	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	117		70 - 130								

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

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

Lab Sample ID: 890-482-1 MSD

Matrix: Solid

Analysis Batch: 1267

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 1271

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	92		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1299/1-A

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			04/05/21 14:27		1

Lab Sample ID: LCS 880-1299/2-A

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride			250	251.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-1299/3-A

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-482-1 MS

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: FS01

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	19.7		251	281.6		mg/Kg		104	90 - 110

Lab Sample ID: 890-482-1 MSD

Matrix: Solid

Analysis Batch: 1329

Client Sample ID: FS01

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	19.7		251	281.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-1315/1-A

Matrix: Solid

Analysis Batch: 1330

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			04/05/21 15:58		1

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1315/2-A

Matrix: Solid

Analysis Batch: 1330

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	272.5		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-1315/3-A

Matrix: Solid

Analysis Batch: 1330

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	273.9		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 890-482-10 MSD

Matrix: Solid

Analysis Batch: 1330

Client Sample ID: PH01 A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.05		248	284.0		mg/Kg					

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## GC VOA

## Prep Batch: 1250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-1250/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1250/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Prep Batch: 1284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-1	FS01	Total/NA	Solid	5035	
890-482-2	FS02	Total/NA	Solid	5035	
890-482-3	FS03	Total/NA	Solid	5035	
MB 880-1284/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1284/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1284/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 1285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-1	FS01	Total/NA	Solid	8021B	1284
890-482-2	FS02	Total/NA	Solid	8021B	1284
890-482-3	FS03	Total/NA	Solid	8021B	1284
MB 880-1284/5-A	Method Blank	Total/NA	Solid	8021B	1284
LCS 880-1250/1-A	Lab Control Sample	Total/NA	Solid	8021B	1250
LCS 880-1284/1-A	Lab Control Sample	Total/NA	Solid	8021B	1284
LCSD 880-1250/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1250
LCSD 880-1284/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1284

## Prep Batch: 1365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-4	FS04	Total/NA	Solid	5035	
890-482-5	FS05	Total/NA	Solid	5035	
890-482-6	FS06	Total/NA	Solid	5035	
890-482-7	FS07	Total/NA	Solid	5035	
890-482-8	FS08	Total/NA	Solid	5035	
890-482-9	PH01	Total/NA	Solid	5035	
MB 880-1365/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1365/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1365/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-482-4 MS	FS04	Total/NA	Solid	5035	
890-482-4 MSD	FS04	Total/NA	Solid	5035	

## Prep Batch: 1366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-10	PH01 A	Total/NA	Solid	5035	
890-482-11	PH02	Total/NA	Solid	5035	
890-482-12	PH02 A	Total/NA	Solid	5035	
890-482-13	PH03	Total/NA	Solid	5035	
890-482-14	PH03 A	Total/NA	Solid	5035	
MB 880-1366/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1366/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1366/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-482-10 MS	PH01 A	Total/NA	Solid	5035	
890-482-10 MSD	PH01 A	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## GC VOA

## Analysis Batch: 1367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-4	FS04	Total/NA	Solid	8021B	1365
890-482-5	FS05	Total/NA	Solid	8021B	1365
890-482-6	FS06	Total/NA	Solid	8021B	1365
890-482-7	FS07	Total/NA	Solid	8021B	1365
890-482-8	FS08	Total/NA	Solid	8021B	1365
890-482-9	PH01	Total/NA	Solid	8021B	1365
MB 880-1365/5-A	Method Blank	Total/NA	Solid	8021B	1365
LCS 880-1365/1-A	Lab Control Sample	Total/NA	Solid	8021B	1365
LCSD 880-1365/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1365
890-482-4 MS	FS04	Total/NA	Solid	8021B	1365
890-482-4 MSD	FS04	Total/NA	Solid	8021B	1365

## Analysis Batch: 1370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-10	PH01 A	Total/NA	Solid	8021B	1366
890-482-11	PH02	Total/NA	Solid	8021B	1366
890-482-12	PH02 A	Total/NA	Solid	8021B	1366
890-482-13	PH03	Total/NA	Solid	8021B	1366
890-482-14	PH03 A	Total/NA	Solid	8021B	1366
MB 880-1366/5-A	Method Blank	Total/NA	Solid	8021B	1366
LCS 880-1366/1-A	Lab Control Sample	Total/NA	Solid	8021B	1366
LCSD 880-1366/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1366
890-482-10 MS	PH01 A	Total/NA	Solid	8021B	1366
890-482-10 MSD	PH01 A	Total/NA	Solid	8021B	1366

## GC Semi VOA

## Analysis Batch: 1267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-1	FS01	Total/NA	Solid	8015B NM	1271
890-482-2	FS02	Total/NA	Solid	8015B NM	1271
890-482-3	FS03	Total/NA	Solid	8015B NM	1271
890-482-4	FS04	Total/NA	Solid	8015B NM	1271
890-482-5	FS05	Total/NA	Solid	8015B NM	1271
890-482-6	FS06	Total/NA	Solid	8015B NM	1271
890-482-7	FS07	Total/NA	Solid	8015B NM	1271
890-482-8	FS08	Total/NA	Solid	8015B NM	1271
890-482-9	PH01	Total/NA	Solid	8015B NM	1271
890-482-10	PH01 A	Total/NA	Solid	8015B NM	1271
890-482-11	PH02	Total/NA	Solid	8015B NM	1271
890-482-12	PH02 A	Total/NA	Solid	8015B NM	1271
890-482-13	PH03	Total/NA	Solid	8015B NM	1271
890-482-14	PH03 A	Total/NA	Solid	8015B NM	1271
MB 880-1271/1-A	Method Blank	Total/NA	Solid	8015B NM	1271
LCS 880-1271/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1271
LCSD 880-1271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1271
890-482-1 MS	FS01	Total/NA	Solid	8015B NM	1271
890-482-1 MSD	FS01	Total/NA	Solid	8015B NM	1271

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

## GC Semi VOA

## Prep Batch: 1271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-1	FS01	Total/NA	Solid	8015NM Prep	
890-482-2	FS02	Total/NA	Solid	8015NM Prep	
890-482-3	FS03	Total/NA	Solid	8015NM Prep	
890-482-4	FS04	Total/NA	Solid	8015NM Prep	
890-482-5	FS05	Total/NA	Solid	8015NM Prep	
890-482-6	FS06	Total/NA	Solid	8015NM Prep	
890-482-7	FS07	Total/NA	Solid	8015NM Prep	
890-482-8	FS08	Total/NA	Solid	8015NM Prep	
890-482-9	PH01	Total/NA	Solid	8015NM Prep	
890-482-10	PH01 A	Total/NA	Solid	8015NM Prep	
890-482-11	PH02	Total/NA	Solid	8015NM Prep	
890-482-12	PH02 A	Total/NA	Solid	8015NM Prep	
890-482-13	PH03	Total/NA	Solid	8015NM Prep	
890-482-14	PH03 A	Total/NA	Solid	8015NM Prep	
MB 880-1271/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1271/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-482-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-482-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

## HPLC/IC

## Leach Batch: 1299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-1	FS01	Soluble	Solid	DI Leach	
890-482-2	FS02	Soluble	Solid	DI Leach	
890-482-3	FS03	Soluble	Solid	DI Leach	
MB 880-1299/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1299/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1299/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-482-1 MS	FS01	Soluble	Solid	DI Leach	
890-482-1 MSD	FS01	Soluble	Solid	DI Leach	

## Leach Batch: 1315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-4	FS04	Soluble	Solid	DI Leach	
890-482-5	FS05	Soluble	Solid	DI Leach	
890-482-6	FS06	Soluble	Solid	DI Leach	
890-482-7	FS07	Soluble	Solid	DI Leach	
890-482-8	FS08	Soluble	Solid	DI Leach	
890-482-9	PH01	Soluble	Solid	DI Leach	
890-482-10	PH01 A	Soluble	Solid	DI Leach	
890-482-11	PH02	Soluble	Solid	DI Leach	
890-482-12	PH02 A	Soluble	Solid	DI Leach	
890-482-13	PH03	Soluble	Solid	DI Leach	
890-482-14	PH03 A	Soluble	Solid	DI Leach	
MB 880-1315/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1315/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1315/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-482-10 MS	PH01 A	Soluble	Solid	DI Leach	
890-482-10 MSD	PH01 A	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

## HPLC/IC

## Analysis Batch: 1329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-1	FS01	Soluble	Solid	300.0	1299
890-482-2	FS02	Soluble	Solid	300.0	1299
890-482-3	FS03	Soluble	Solid	300.0	1299
MB 880-1299/1-A	Method Blank	Soluble	Solid	300.0	1299
LCS 880-1299/2-A	Lab Control Sample	Soluble	Solid	300.0	1299
LCSD 880-1299/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1299
890-482-1 MS	FS01	Soluble	Solid	300.0	1299
890-482-1 MSD	FS01	Soluble	Solid	300.0	1299

## Analysis Batch: 1330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-482-4	FS04	Soluble	Solid	300.0	1315
890-482-5	FS05	Soluble	Solid	300.0	1315
890-482-6	FS06	Soluble	Solid	300.0	1315
890-482-7	FS07	Soluble	Solid	300.0	1315
890-482-8	FS08	Soluble	Solid	300.0	1315
890-482-9	PH01	Soluble	Solid	300.0	1315
890-482-10	PH01 A	Soluble	Solid	300.0	1315
890-482-11	PH02	Soluble	Solid	300.0	1315
890-482-12	PH02 A	Soluble	Solid	300.0	1315
890-482-13	PH03	Soluble	Solid	300.0	1315
890-482-14	PH03 A	Soluble	Solid	300.0	1315
MB 880-1315/1-A	Method Blank	Soluble	Solid	300.0	1315
LCS 880-1315/2-A	Lab Control Sample	Soluble	Solid	300.0	1315
LCSD 880-1315/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1315
890-482-10 MS	PH01 A	Soluble	Solid	300.0	1315
890-482-10 MSD	PH01 A	Soluble	Solid	300.0	1315

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

## Client Sample ID: FS01

Lab Sample ID: 890-482-1

Date Collected: 04/01/21 09:00

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1284	04/03/21 13:57	KL	XM
Total/NA	Analysis	8021B		1	1285	04/04/21 00:25	KL	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/03/21 22:25	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		1	1329	04/05/21 15:58	CH	XM

## Client Sample ID: FS02

Lab Sample ID: 890-482-2

Date Collected: 04/01/21 09:07

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1284	04/03/21 13:57	KL	XM
Total/NA	Analysis	8021B		1	1285	04/04/21 00:46	KL	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/03/21 23:29	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		1	1329	04/05/21 16:13	CH	XM

## Client Sample ID: FS03

Lab Sample ID: 890-482-3

Date Collected: 04/01/21 11:06

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1284	04/03/21 13:57	KL	XM
Total/NA	Analysis	8021B		1	1285	04/04/21 01:06	KL	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/03/21 23:49	AJ	XM
Soluble	Leach	DI Leach			1299	04/04/21 15:20	SC	XM
Soluble	Analysis	300.0		1	1329	04/05/21 16:18	CH	XM

## Client Sample ID: FS04

Lab Sample ID: 890-482-4

Date Collected: 04/01/21 12:18

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 13:50	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 00:10	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 18:21	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

## Client Sample ID: FS05

Lab Sample ID: 890-482-5

Date Collected: 04/01/21 12:30

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 14:11	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 00:31	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 18:38	CH	XM

## Client Sample ID: FS06

Lab Sample ID: 890-482-6

Date Collected: 04/01/21 10:38

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 14:32	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 00:52	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 18:43	CH	XM

## Client Sample ID: FS07

Lab Sample ID: 890-482-7

Date Collected: 04/01/21 10:39

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 14:52	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 01:13	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 18:49	CH	XM

## Client Sample ID: FS08

Lab Sample ID: 890-482-8

Date Collected: 04/01/21 13:43

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 15:13	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 01:33	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 18:54	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

Client Sample ID: PH01

Lab Sample ID: 890-482-9

Date Collected: 04/01/21 14:04

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1365	04/06/21 11:00	MR	XM
Total/NA	Analysis	8021B		1	1367	04/06/21 15:34	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 01:54	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 19:00	CH	XM

Client Sample ID: PH01 A

Lab Sample ID: 890-482-10

Date Collected: 04/01/21 14:09

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 14:24	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 02:15	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 19:06	CH	XM

Client Sample ID: PH02

Lab Sample ID: 890-482-11

Date Collected: 04/01/21 09:00

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 14:44	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 02:57	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 19:22	CH	XM

Client Sample ID: PH02 A

Lab Sample ID: 890-482-12

Date Collected: 04/01/21 09:07

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 15:05	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 03:18	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 19:28	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

## Client Sample ID: PH03

## Lab Sample ID: 890-482-13

Date Collected: 04/01/21 11:06

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 15:25	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 03:39	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/06/21 09:17	CH	XM

## Client Sample ID: PH03 A

## Lab Sample ID: 890-482-14

Date Collected: 04/01/21 12:18

Matrix: Solid

Date Received: 04/02/21 09:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1366	04/06/21 11:15	MR	XM
Total/NA	Analysis	8021B		1	1370	04/06/21 15:46	AJ	XM
Total/NA	Prep	8015NM Prep			1271	04/03/21 10:28	DM	XM
Total/NA	Analysis	8015B NM		1	1267	04/04/21 04:00	AJ	XM
Soluble	Leach	DI Leach			1315	04/05/21 11:43	SC	XM
Soluble	Analysis	300.0		1	1330	04/05/21 19:50	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: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

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: Corral Canyon 10E TE012921033

Job ID: 890-482-1  
SDG: Eddy

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.

Job ID: 890-482-1

Project/Site: Corral Canyon 10E TE012921033

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-482-1	FS01	Solid	04/01/21 09:00	04/02/21 09:07	- 1.5
890-482-2	FS02	Solid	04/01/21 09:07	04/02/21 09:07	- 1.5
890-482-3	FS03	Solid	04/01/21 11:06	04/02/21 09:07	- 1.5
890-482-4	FS04	Solid	04/01/21 12:18	04/02/21 09:07	- 1.5
890-482-5	FS05	Solid	04/01/21 12:30	04/02/21 09:07	- 1.5
890-482-6	FS06	Solid	04/01/21 10:38	04/02/21 09:07	- 1
890-482-7	FS07	Solid	04/01/21 10:39	04/02/21 09:07	- 1
890-482-8	FS08	Solid	04/01/21 13:43	04/02/21 09:07	- 1
890-482-9	PH01	Solid	04/01/21 14:04	04/02/21 09:07	- 2
890-482-10	PH01 A	Solid	04/01/21 14:09	04/02/21 09:07	- 4
890-482-11	PH02	Solid	04/01/21 09:00	04/02/21 09:07	- 2
890-482-12	PH02 A	Solid	04/01/21 09:07	04/02/21 09:07	- 4
890-482-13	PH03	Solid	04/01/21 11:06	04/02/21 09:07	- 2
890-482-14	PH03 A	Solid	04/01/21 12:18	04/02/21 09:07	- 4

Eurofins Xenco, Carlsbad



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

## Chain of Custody

Work Order No: \_\_\_\_\_

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Page 1 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Little
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

<b>Program:</b> <input type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Groundfalls <input type="checkbox"/> RC <input type="checkbox"/> Perfund <input type="checkbox"/> <b>State of Project:</b>	
<b>Reporting Level:</b> <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V	<b>Deliverables:</b> <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Corral Canyon 10E	Turn Around	
Project Number:	TE012921033	Routine	<input type="checkbox"/>
P.O. Number:	Eddy	Rush:	48hr
Sampler's Name:	William Mather	Due Date:	

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
FS01		S	4/1/2021	9:00	1.5'	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	0849/4/13/21	<i>[Signature]</i>	<i>[Signature]</i>	74:22 0903



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

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Page 2 of 2

## Chain of Custody

Work Order No: \_\_\_\_\_

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

<b>Program:</b> <input type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Growfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> <b>State of Project:</b>	
<b>Reporting Level:</b> <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PT/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>	<b>Deliverables:</b> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Corral Canyon 10E	Turn Around		ANALYSIS REQUEST	Work Order Notes
Project Number:	TE012921033	Routine <input type="checkbox"/>			
P.O. Number:	Eddy	Rush: 48hr			
Sampler's Name:	William Mather	Due Date:			
<b>SAMPLE RECEIPT</b>		Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):		Thermometer ID			
Received Intact:	Yes No	Correction Factor:			
Cooler Custody Seals:	Yes No N/A	Total Containers:			
Sample Custody Seals:	Yes No N/A				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers														
					TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)												
PH02	S	4/1/2021	9:00	2'	X	X	X												
PH02A	S	4/1/2021	9:07	4'	X	X	X												
PH03	S	4/1/2021	11:06	2'	X	X	X												
PH03A	S	4/1/2021	12:18	4'	X	X	X												
<i>[Handwritten signature across the table]</i>																			

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$76.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	6850/4/12/21	<i>[Signature]</i>	<i>[Signature]</i>	4/22/2021

## 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

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s):	COC No:							
Client Contact:	Phone	Kramer Jessica			890-147 1							
Shipping/Receiving	E-Mail	jessica.kramer@eurofins.com	State of Origin:	Page:	Page 1 of 2							
Company		Accreditations Required (See note)	New Mexico	Job #:	890-482-1							
Eurofins Xenco		NE LAP - Louisiana NE LAP - Texas										
Address:	Due Date Requested	Analysis Requested										
1211 W Florida Ave.	4/6/2021											
City:	TAT Requested (days):											
Midland												
State Zip:												
TX, 79701												
Phone:	PO #:											
432-704-5440 (Tel)												
Email:	WO #:											
Project Name:	Project #:											
Corral Canyon 10E	89000004											
Site:	SSOW#:											
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=Water, S=solid, O=soil, BT=Tissue, A=Air)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>8015MOD_NM/8015NM_S_Prep Full TPH</b>	<b>300_ORGFM_28D/DI_LEACH Chloride</b>	<b>8021B/5035FP_Calc BTEX</b>	<b>Total Number of containers</b>	<b>Special Instructions/Note:</b>
FS01 (890-482-1)	4/1/21	09 00	Mountain		Solid	X	X	X	X	X	1	
FS02 (890-482-2)	4/1/21	09 07	Mountain		Solid	X	X	X	X	X	1	
FS03 (890-482-3)	4/1/21	11 06	Mountain		Solid	X	X	X	X	X	1	
FS04 (890-482-4)	4/1/21	12 18	Mountain		Solid	X	X	X	X	X	1	
FS05 (890-482-5)	4/1/21	12 30	Mountain		Solid	X	X	X	X	X	1	
FS06 (890-482-6)	4/1/21	10 38	Mountain		Solid	X	X	X	X	X	1	
FS07 (890-482-7)	4/1/21	10 39	Mountain		Solid	X	X	X	X	X	1	
FS08 (890-482-8)	4/1/21	13 43	Mountain		Solid	X	X	X	X	X	1	
PH01 (890-482-9)	4/1/21	14 04	Mountain		Solid	X	X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, 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.</p>												
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested I II III IV Other (specify) _____ Primary Deliverable Rank 2 _____</p> <p>Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment _____</p> <p>Relinquished by _____ Date/Time: _____ Company _____ Received by: _____ Date/Time: _____ Company _____</p> <p>Relinquished by _____ Date/Time: _____ Company _____ Received by: _____ Date/Time: _____ Company _____</p> <p>Custody Seals Intact: _____ Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks _____</p> <p>Δ Yes Δ No</p>												

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-482-1

SDG Number: Eddy

Login Number: 482

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-482-1

SDG Number: Eddy

Login Number: 482

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/02/21 02:28 PM

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



Environment Testing  
America

## ANALYTICAL REPORT

Job Number: 890-541-1

SDG Number: TE012921033

Job Description: Corral Canyon 10E (2-15-21)

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

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

Approved for release.  
Jessica Kramer  
Project Manager  
4/22/2021 1:09 PM

---

Jessica Kramer, Project Manager  
1211 W. Florida Ave, Midland, TX, 79701  
jessica.kramer@eurofinset.com  
04/22/2021

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

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

**Eurofins Xenco, Carlsbad**

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 [www.EurofinsUS.com](http://www.EurofinsUS.com)



## Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

<b>Lab Sample ID:</b>	890-541-1	890-541-2	890-541-3	890-541-4	890-541-5
<b>Client Sample ID:</b>	PH04	PH04A	PH05	PH05A	PH06
<b>Depth:</b>	1	2	1	2	1
<b>Matrix:</b>	Solid	Solid	Solid	Solid	Solid
<b>Date Collected:</b>	04/19/2021 11:09	04/19/2021 11:11	04/19/2021 11:20	04/19/2021 11:21	04/19/2021 11:29

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

	<b>Prepared:</b>	04/21/2021 10:10	04/21/2021 10:10	04/21/2021 10:10	04/21/2021 10:10	04/21/2021 10:10					
	<b>Analyzed:</b>	04/21/2021 18:02	04/21/2021 18:22	04/21/2021 18:43	04/21/2021 19:03	04/21/2021 19:24					
<b>Analyte</b>	<b>Unit/RL:</b>	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200
Toluene		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200
Ethylbenzene		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00402 U	0.00402	<0.00398 U	0.00398	<0.00399 U	0.00399
o-Xylene		<0.00200 U	0.00200	<0.00199 U	0.00199	<0.00201 U	0.00201	<0.00199 U	0.00199	<0.00200 U	0.00200
Xylenes, Total		<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00402 U	0.00402	<0.00398 U	0.00398	<0.00399 U	0.00399
Total BTEX		<0.00401 U	0.00401	<0.00398 U	0.00398	<0.00402 U	0.00402	<0.00398 U	0.00398	<0.00399 U	0.00399

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

	<b>Prepared:</b>	04/20/2021 15:03		04/20/2021 15:03		04/20/2021 15:03		04/20/2021 15:03		04/20/2021 15:03	
	<b>Analyzed:</b>	04/21/2021 17:00		04/21/2021 18:03		04/21/2021 18:24		04/21/2021 18:45		04/21/2021 19:06	
<b>Analyte</b>	<b>Unit/RL:</b>	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		<49.9 U *	49.9	<49.9 U *	49.9	<49.8 U *	49.8	<49.9 U *	49.9	<50.0 U *	50.0
Diesel Range Organics (Over C10-C28)		<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Oil Range Organics (Over C28-C36)		<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0
Total TPH		<49.9 U	49.9	<49.9 U	49.9	<49.8 U	49.8	<49.9 U	49.9	<50.0 U	50.0

## Method: 300.0 - Anions, Ion Chromatography - Soluble

	Prepared:										
	Analyzed: 04/21/2021 17:23		04/21/2021 17:28		04/21/2021 17:33		04/21/2021 17:38		04/21/2021 17:43		
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Chloride		145	5.05	30.1	5.05	168	4.99	23.9	4.96	52.1	5.02

## Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

<b>Lab Sample ID:</b> 890-541-6	890-541-7	890-541-8	890-541-9	890-541-10
<b>Client Sample ID:</b> PH06A	PH07	PH07A	PH08	PH08A
<b>Depth:</b> 2	1	2	1	2
<b>Matrix:</b> Solid	Solid	Solid	Solid	Solid
<b>Date Collected:</b> 04/19/2021 11:30	04/19/2021 11:37	04/19/2021 11:38	04/19/2021 11:46	04/19/2021 11:48

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

<b>Prepared:</b> 04/21/2021 10:10	04/21/2021 10:10	04/21/2021 10:10	04/21/2021 10:10	04/21/2021 10:10
<b>Analyzed:</b> 04/21/2021 19:44	04/21/2021 20:04	04/21/2021 20:25	04/21/2021 20:45	04/21/2021 21:06
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00198 U 0.00198
Toluene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00198 U 0.00198
Ethylbenzene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00198 U 0.00198
m-Xylene & p-Xylene	<0.00400 U 0.00400	<0.00398 U 0.00398	<0.00398 U 0.00398	<0.00397 U 0.00397
o-Xylene	<0.00200 U 0.00200	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00198 U 0.00198
Xylenes, Total	<0.00400 U 0.00400	<0.00398 U 0.00398	<0.00398 U 0.00398	<0.00397 U 0.00397
Total BTEX	<0.00400 U 0.00400	<0.00398 U 0.00398	<0.00398 U 0.00398	<0.00397 U 0.00397

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

<b>Prepared:</b> 04/20/2021 15:03	04/20/2021 15:03	04/20/2021 15:03	04/20/2021 15:03	04/20/2021 15:03
<b>Analyzed:</b> 04/21/2021 19:28	04/21/2021 19:49	04/21/2021 20:10	04/21/2021 20:31	04/21/2021 20:52
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<50.0 U *+ 50.0	<50.0 U *+ 50.0	<49.9 U *+ 49.9	<49.9 U *+ 49.9
Diesel Range Organics (Over C10-C28)	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9	<49.9 U 49.9
Oil Range Organics (Over C28-C36)	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9	<49.9 U 49.9
Total TPH	<50.0 U 50.0	<50.0 U 50.0	<49.9 U 49.9	<49.9 U 49.9

## Method: 300.0 - Anions, Ion Chromatography - Soluble

<b>Prepared:</b>				
<b>Analyzed:</b> 04/21/2021 17:48	04/21/2021 09:28	04/21/2021 09:33	04/21/2021 09:38	04/21/2021 09:43
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	<b>136</b> 5.03	<b>133</b> 5.04	<b>74.9</b> 5.05	<b>108</b> 5.02
				<b>38.4</b> 4.99

## Client Sample Result Summary

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

<b>Lab Sample ID:</b> 890-541-11	890-541-12	890-541-13	890-541-14
<b>Client Sample ID:</b> PH09	PH09A	PH10	PH10A
<b>Depth:</b> 1	2	1	2
<b>Matrix:</b> Solid	Solid	Solid	Solid
<b>Date Collected:</b> 04/19/2021 11:57	04/19/2021 11:58	04/19/2021 12:08	04/19/2021 12:09

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

<b>Prepared:</b> 04/21/2021 10:15	04/21/2021 10:15	04/21/2021 10:15	04/21/2021 10:15
<b>Analyzed:</b> 04/22/2021 00:20	04/22/2021 00:40	04/22/2021 01:01	04/22/2021 01:21
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202
Toluene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202
Ethylbenzene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202
m-Xylene & p-Xylene	<0.00401 U 0.00401	<0.00404 U 0.00404	<0.00404 U 0.00404
o-Xylene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202
Xylenes, Total	<0.00401 U 0.00401	<0.00404 U 0.00404	<0.00404 U 0.00404
Total BTEX	<0.00401 U 0.00401	<0.00404 U 0.00404	<0.00402 U 0.00402

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

<b>Prepared:</b> 04/20/2021 15:03	04/20/2021 15:03	04/20/2021 15:03	04/20/2021 15:03
<b>Analyzed:</b> 04/21/2021 21:34	04/21/2021 21:55	04/21/2021 22:16	04/21/2021 22:38
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U *+ 49.9	<49.8 U *+ 49.8	<50.0 U *+ 50.0
Diesel Range Organics (Over C10-C28)	<49.9 U 49.9	<49.8 U 49.8	<50.0 U 50.0
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<49.8 U 49.8	<50.0 U 50.0
Total TPH	<49.9 U 49.9	<49.8 U 49.8	<50.0 U 50.0

## Method: 300.0 - Anions, Ion Chromatography - Soluble

<b>Prepared:</b>			
<b>Analyzed:</b> 04/21/2021 09:58	04/21/2021 10:04	04/21/2021 10:09	04/21/2021 10:14
<b>Analyte</b>	<b>Unit/RL:</b> mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	23.4 4.97	19.2 4.95	53.6 4.95



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-541-1

Laboratory Sample Delivery Group: TE012921033  
Client Project/Site: Corral Canyon 10E (2-15-21)

**For:**

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

Attn: Dan Moir

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

Authorized for release by:  
4/22/2021 1:09:49 PM

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

#### LINKS

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

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

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Laboratory Job ID: 890-541-1  
SDG: TE012921033

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## Definitions/Glossary

Client: WSP USA Inc.

Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1

SDG: TE012921033

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

### Job ID: 890-541-1

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

#### Job Narrative 890-541-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/19/2021 3:21 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

#### Receipt Exceptions

The following samples analyzed for method BTEX 80021 were received and analyzed from an unpreserved bulk soil jar: PH04 (890-541-1), PH04A (890-541-2), PH05 (890-541-3), PH05A (890-541-4), PH06 (890-541-5), PH06A (890-541-6), PH07 (890-541-7), PH07A (890-541-8), PH08 (890-541-9), PH08A (890-541-10), PH09 (890-541-11), PH09A (890-541-12), PH10 (890-541-13) and PH10A (890-541-14).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH08 (890-541-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-2052 and analytical batch 880-2091 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

#### General Chemistry

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

#### Organic Prep

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

#### VOA Prep

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH04

Lab Sample ID: 890-541-1

Date Collected: 04/19/21 11:09

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 18:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 18:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 18:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/21/21 10:10	04/21/21 18:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 18:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/21/21 10:10	04/21/21 18:02	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/21/21 10:10	04/21/21 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21/21 10:10	04/21/21 18:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/21 10:10	04/21/21 18:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		04/20/21 15:03	04/21/21 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 17:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 17:00	1
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/20/21 15:03	04/21/21 17:00	1
o-Terphenyl	92		70 - 130	04/20/21 15:03	04/21/21 17:00	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		5.05	mg/Kg			04/21/21 17:23	1

Client Sample ID: PH04A

Lab Sample ID: 890-541-2

Date Collected: 04/19/21 11:11

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 18:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 18:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 18:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 18:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 18:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 18:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/21/21 10:10	04/21/21 18:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/21 10:10	04/21/21 18:22	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## Client Sample ID: PH04A

Lab Sample ID: 890-541-2

Date Collected: 04/19/21 11:11

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:03	1
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/20/21 15:03	04/21/21 18:03	1
o-Terphenyl	94		70 - 130	04/20/21 15:03	04/21/21 18:03	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.1		5.05	mg/Kg			04/21/21 17:28	1

## Client Sample ID: PH05

Lab Sample ID: 890-541-3

Date Collected: 04/19/21 11:20

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:10	04/21/21 18:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:10	04/21/21 18:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:10	04/21/21 18:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/21 10:10	04/21/21 18:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:10	04/21/21 18:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/21 10:10	04/21/21 18:43	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/21/21 10:10	04/21/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/21/21 10:10	04/21/21 18:43	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/21 10:10	04/21/21 18:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		04/20/21 15:03	04/21/21 18:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/20/21 15:03	04/21/21 18:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/20/21 15:03	04/21/21 18:24	1
Total TPH	<49.8	U	49.8	mg/Kg		04/20/21 15:03	04/21/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/20/21 15:03	04/21/21 18:24	1
o-Terphenyl	88		70 - 130	04/20/21 15:03	04/21/21 18:24	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.99	mg/Kg			04/21/21 17:33	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH05A

Lab Sample ID: 890-541-4

Date Collected: 04/19/21 11:21

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 19:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 19:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 19:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 19:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 19:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 19:03	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/21/21 10:10	04/21/21 19:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/21/21 10:10	04/21/21 19:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:45	1
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/20/21 15:03	04/21/21 18:45	1
o-Terphenyl	74		70 - 130	04/20/21 15:03	04/21/21 18:45	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.9		4.96	mg/Kg			04/21/21 17:38	1

Client Sample ID: PH06

Lab Sample ID: 890-541-5

Date Collected: 04/19/21 11:29

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/21/21 10:10	04/21/21 19:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/21/21 10:10	04/21/21 19:24	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/21/21 10:10	04/21/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/21/21 10:10	04/21/21 19:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/21 10:10	04/21/21 19:24	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## Client Sample ID: PH06

Lab Sample ID: 890-541-5

Date Collected: 04/19/21 11:29

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:06	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/20/21 15:03	04/21/21 19:06	1
o-Terphenyl	95		70 - 130	04/20/21 15:03	04/21/21 19:06	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.1		5.02	mg/Kg			04/21/21 17:43	1

## Client Sample ID: PH06A

Lab Sample ID: 890-541-6

Date Collected: 04/19/21 11:30

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 19:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 19:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 19:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/21/21 10:10	04/21/21 19:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/21/21 10:10	04/21/21 19:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:28	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/20/21 15:03	04/21/21 19:28	1
o-Terphenyl	102		70 - 130	04/20/21 15:03	04/21/21 19:28	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		5.03	mg/Kg			04/21/21 17:48	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH07

Lab Sample ID: 890-541-7

Date Collected: 04/19/21 11:37

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	04/21/21 10:10	04/21/21 20:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/21/21 10:10	04/21/21 20:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:49	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/20/21 15:03	04/21/21 19:49	1
o-Terphenyl	95		70 - 130	04/20/21 15:03	04/21/21 19:49	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.04	mg/Kg			04/21/21 09:28	1

Client Sample ID: PH07A

Lab Sample ID: 890-541-8

Date Collected: 04/19/21 11:38

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 20:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 20:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 20:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 20:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/21 10:10	04/21/21 20:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 20:25	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/21/21 10:10	04/21/21 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/21/21 10:10	04/21/21 20:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/21/21 10:10	04/21/21 20:25	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## Client Sample ID: PH07A

Lab Sample ID: 890-541-8

Date Collected: 04/19/21 11:38

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:10	1
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/20/21 15:03	04/21/21 20:10	1
o-Terphenyl	89		70 - 130	04/20/21 15:03	04/21/21 20:10	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		5.05	mg/Kg			04/21/21 09:33	1

## Client Sample ID: PH08

Lab Sample ID: 890-541-9

Date Collected: 04/19/21 11:46

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/21/21 10:10	04/21/21 20:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/21/21 10:10	04/21/21 20:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/21/21 10:10	04/21/21 20:45	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/21/21 10:10	04/21/21 20:45	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/21/21 10:10	04/21/21 20:45	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/21/21 10:10	04/21/21 20:45	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		04/21/21 10:10	04/21/21 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/21/21 10:10	04/21/21 20:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/21/21 10:10	04/21/21 20:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:31	1
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/20/21 15:03	04/21/21 20:31	1
o-Terphenyl	84		70 - 130	04/20/21 15:03	04/21/21 20:31	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.02	mg/Kg			04/21/21 09:38	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH08A

Lab Sample ID: 890-541-10

Date Collected: 04/19/21 11:48

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 21:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 21:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 21:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 21:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 21:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 21:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	04/21/21 10:10	04/21/21 21:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/21/21 10:10	04/21/21 21:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		04/20/21 15:03	04/21/21 20:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 20:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 20:52	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/20/21 15:03	04/21/21 20:52	1
o-Terphenyl	93		70 - 130	04/20/21 15:03	04/21/21 20:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.4		4.99	mg/Kg			04/21/21 09:43	1

Client Sample ID: PH09

Lab Sample ID: 890-541-11

Date Collected: 04/19/21 11:57

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/22/21 00:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/22/21 00:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/22/21 00:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/21/21 10:15	04/22/21 00:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/22/21 00:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/21/21 10:15	04/22/21 00:20	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/21/21 10:15	04/22/21 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/21/21 10:15	04/22/21 00:20	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/21/21 10:15	04/22/21 00:20	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## Client Sample ID: PH09

## Lab Sample ID: 890-541-11

Date Collected: 04/19/21 11:57

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		04/20/21 15:03	04/21/21 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 21:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 21:34	1
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 15:03	04/21/21 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/20/21 15:03	04/21/21 21:34	1
o-Terphenyl	96		70 - 130	04/20/21 15:03	04/21/21 21:34	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		4.97	mg/Kg			04/21/21 09:58	1

## Client Sample ID: PH09A

## Lab Sample ID: 890-541-12

Date Collected: 04/19/21 11:58

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 00:40	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 00:40	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 00:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/21/21 10:15	04/22/21 00:40	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 00:40	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/21/21 10:15	04/22/21 00:40	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		04/21/21 10:15	04/22/21 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/21/21 10:15	04/22/21 00:40	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/21/21 10:15	04/22/21 00:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		04/20/21 15:03	04/21/21 21:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/20/21 15:03	04/21/21 21:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/20/21 15:03	04/21/21 21:55	1
Total TPH	<49.8	U	49.8	mg/Kg		04/20/21 15:03	04/21/21 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/20/21 15:03	04/21/21 21:55	1
o-Terphenyl	89		70 - 130	04/20/21 15:03	04/21/21 21:55	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		4.95	mg/Kg			04/21/21 10:04	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH10

Lab Sample ID: 890-541-13

Date Collected: 04/19/21 12:08

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 01:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 01:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 01:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/21/21 10:15	04/22/21 01:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/21/21 10:15	04/22/21 01:01	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/21/21 10:15	04/22/21 01:01	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		04/21/21 10:15	04/22/21 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/21/21 10:15	04/22/21 01:01	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/21/21 10:15	04/22/21 01:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		04/20/21 15:03	04/21/21 22:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 22:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 22:16	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/20/21 15:03	04/21/21 22:16	1
o-Terphenyl	70		70 - 130	04/20/21 15:03	04/21/21 22:16	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.6		4.95	mg/Kg			04/21/21 10:09	1

Client Sample ID: PH10A

Lab Sample ID: 890-541-14

Date Collected: 04/19/21 12:09

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:15	04/22/21 01:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:15	04/22/21 01:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:15	04/22/21 01:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/21 10:15	04/22/21 01:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/21 10:15	04/22/21 01:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/21 10:15	04/22/21 01:21	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/21/21 10:15	04/22/21 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/21/21 10:15	04/22/21 01:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/21 10:15	04/22/21 01:21	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH10A

Lab Sample ID: 890-541-14

Date Collected: 04/19/21 12:09

Matrix: Solid

Date Received: 04/19/21 15:21

Sample Depth: - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		04/20/21 15:03	04/21/21 22:38	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>69.3</b>		50.0	mg/Kg		04/20/21 15:03	04/21/21 22:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 22:38	1
<b>Total TPH</b>	<b>69.3</b>		50.0	mg/Kg		04/20/21 15:03	04/21/21 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	04/20/21 15:03	04/21/21 22:38	1
o-Terphenyl	80		70 - 130	04/20/21 15:03	04/21/21 22:38	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>31.7</b>		5.04	mg/Kg			04/21/21 10:14	1

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## 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)
890-541-1	PH04	101	94
890-541-2	PH04A	95	94
890-541-3	PH05	95	94
890-541-4	PH05A	97	95
890-541-5	PH06	97	94
890-541-6	PH06A	98	92
890-541-7	PH07	96	95
890-541-8	PH07A	91	95
890-541-9	PH08	98	94
890-541-10	PH08A	93	96
890-541-11	PH09	104	107
890-541-11 MS	PH09	102	107
890-541-11 MSD	PH09	103	106
890-541-12	PH09A	111	108
890-541-13	PH10	108	107
890-541-14	PH10A	113	104
LCS 880-2085/1-A	Lab Control Sample	105	101
LCS 880-2086/1-A	Lab Control Sample	99	104
LCSD 880-2085/2-A	Lab Control Sample Dup	107	102
LCSD 880-2086/2-A	Lab Control Sample Dup	99	106
MB 880-2085/5-A	Method Blank	87	92
MB 880-2086/5-A	Method Blank	101	99
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-541-1	PH04	100	92
890-541-1 MS	PH04	110	92
890-541-1 MSD	PH04	107	92
890-541-2	PH04A	101	94
890-541-3	PH05	95	88
890-541-4	PH05A	83	74
890-541-5	PH06	109	95
890-541-6	PH06A	111	102
890-541-7	PH07	109	95
890-541-8	PH07A	99	89
890-541-9	PH08	92	84
890-541-10	PH08A	102	93
890-541-11	PH09	108	96
890-541-12	PH09A	98	89
890-541-13	PH10	83	70
890-541-14	PH10A	91	80
LCS 880-2052/2-A	Lab Control Sample	112	96

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

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)
LCSD 880-2052/3-A	Lab Control Sample Dup	128	108
MB 880-2052/1-A	Method Blank	104	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

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

Lab Sample ID: MB 880-2085/5-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2085

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 13:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 13:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/21/21 10:10	04/21/21 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	04/21/21 10:10	04/21/21 13:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/21/21 10:10	04/21/21 13:15	1

Lab Sample ID: LCS 880-2085/1-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09845		mg/Kg		98	70 - 130
Toluene	0.100	0.09288		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09542		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-2085/2-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2085

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1068		mg/Kg		107	70 - 130	8	35
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	9	35
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130	10	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-2086/5-A

Matrix: Solid

Analysis Batch: 2080

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2086

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/21/21 23:51	1

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

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

Lab Sample ID: MB 880-2086/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2080

Prep Batch: 2086

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/21/21 23:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/21/21 23:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/21 10:15	04/21/21 23:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/21 10:15	04/21/21 23:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/21 10:15	04/21/21 23:51	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/21/21 10:15	04/21/21 23:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21/21 10:15	04/21/21 23:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/21/21 10:15	04/21/21 23:51	1

Lab Sample ID: LCS 880-2086/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2080

Prep Batch: 2086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08956		mg/Kg		90	70 - 130
Toluene	0.100	0.09152		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09541		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09480		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-2086/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2080

Prep Batch: 2086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09493		mg/Kg		95	70 - 130	6	35
Toluene	0.100	0.09597		mg/Kg		96	70 - 130	5	35
Ethylbenzene	0.100	0.09925		mg/Kg		99	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2005		mg/Kg		100	70 - 130	4	35
o-Xylene	0.100	0.09816		mg/Kg		98	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-541-11 MS

Client Sample ID: PH09

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2080

Prep Batch: 2086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.101	0.08611		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.101	0.08410		mg/Kg		83	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

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

Lab Sample ID: 890-541-11 MS

Client Sample ID: PH09

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2080

Prep Batch: 2086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.101	0.08266		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1659		mg/Kg		82	70 - 130
o-Xylene	<0.00200	U	0.101	0.08085		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-541-11 MSD

Client Sample ID: PH09

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2080

Prep Batch: 2086

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.08953		mg/Kg		89	70 - 130	4	35
Toluene	<0.00200	U	0.101	0.08985		mg/Kg		89	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.101	0.09140		mg/Kg		91	70 - 130	10	35
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1860		mg/Kg		92	70 - 130	11	35
o-Xylene	<0.00200	U	0.101	0.09019		mg/Kg		89	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-2052/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2091

Prep Batch: 2052

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 15:58	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 15:03	04/21/21 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/20/21 15:03	04/21/21 15:58	1
o-Terphenyl	98		70 - 130	04/20/21 15:03	04/21/21 15:58	1

Lab Sample ID: LCS 880-2052/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 2091

Prep Batch: 2052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1234		mg/Kg		123	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

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

Lab Sample ID: LCS 880-2052/2-A

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2052

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over C10-C28)			1000	894.9		mg/Kg		89	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: LCSD 880-2052/3-A

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2052

Top Data: 100%											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1443	*+	mg/Kg		144	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	14	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 890-541-1 MS

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: PH04

Prep Type: Total/NA

Prep Batch: 2052

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	998	1287		mg/Kg		127	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	946.7		mg/Kg		92	70 - 130		

Lab Sample ID: 890-541-1 MSD

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: PH04

Prep Type: Total/NA

Prep Batch: 2052

Top Data: 100%											
	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 *+	998	1269		mg/Kg		125	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	951.1		mg/Kg		93	70 - 130	0	20
				</							

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2043/1-A

Matrix: Solid

Analysis Batch: 2093

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/21/21 15:15	1

Lab Sample ID: LCS 880-2043/2-A

Matrix: Solid

Analysis Batch: 2093

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-2043/3-A

Matrix: Solid

Analysis Batch: 2093

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	254.2		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-2055/1-A

Matrix: Solid

Analysis Batch: 2094

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/21/21 08:58	1

Lab Sample ID: LCS 880-2055/2-A

Matrix: Solid

Analysis Batch: 2094

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	271.5		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-2055/3-A

Matrix: Solid

Analysis Batch: 2094

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	265.2		mg/Kg		106	90 - 110	2	20

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## GC VOA

## Analysis Batch: 2080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-11	PH09	Total/NA	Solid	8021B	2086
890-541-12	PH09A	Total/NA	Solid	8021B	2086
890-541-13	PH10	Total/NA	Solid	8021B	2086
890-541-14	PH10A	Total/NA	Solid	8021B	2086
MB 880-2086/5-A	Method Blank	Total/NA	Solid	8021B	2086
LCS 880-2086/1-A	Lab Control Sample	Total/NA	Solid	8021B	2086
LCSD 880-2086/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2086
890-541-11 MS	PH09	Total/NA	Solid	8021B	2086
890-541-11 MSD	PH09	Total/NA	Solid	8021B	2086

## Analysis Batch: 2084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-1	PH04	Total/NA	Solid	8021B	2085
890-541-2	PH04A	Total/NA	Solid	8021B	2085
890-541-3	PH05	Total/NA	Solid	8021B	2085
890-541-4	PH05A	Total/NA	Solid	8021B	2085
890-541-5	PH06	Total/NA	Solid	8021B	2085
890-541-6	PH06A	Total/NA	Solid	8021B	2085
890-541-7	PH07	Total/NA	Solid	8021B	2085
890-541-8	PH07A	Total/NA	Solid	8021B	2085
890-541-9	PH08	Total/NA	Solid	8021B	2085
890-541-10	PH08A	Total/NA	Solid	8021B	2085
MB 880-2085/5-A	Method Blank	Total/NA	Solid	8021B	2085
LCS 880-2085/1-A	Lab Control Sample	Total/NA	Solid	8021B	2085
LCSD 880-2085/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2085

## Prep Batch: 2085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-1	PH04	Total/NA	Solid	5035	
890-541-2	PH04A	Total/NA	Solid	5035	
890-541-3	PH05	Total/NA	Solid	5035	
890-541-4	PH05A	Total/NA	Solid	5035	
890-541-5	PH06	Total/NA	Solid	5035	
890-541-6	PH06A	Total/NA	Solid	5035	
890-541-7	PH07	Total/NA	Solid	5035	
890-541-8	PH07A	Total/NA	Solid	5035	
890-541-9	PH08	Total/NA	Solid	5035	
890-541-10	PH08A	Total/NA	Solid	5035	
MB 880-2085/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2085/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2085/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Prep Batch: 2086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-11	PH09	Total/NA	Solid	5035	
890-541-12	PH09A	Total/NA	Solid	5035	
890-541-13	PH10	Total/NA	Solid	5035	
890-541-14	PH10A	Total/NA	Solid	5035	
MB 880-2086/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2086/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2086/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## GC VOA (Continued)

## Prep Batch: 2086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-11 MS	PH09	Total/NA	Solid	5035	
890-541-11 MSD	PH09	Total/NA	Solid	5035	

## GC Semi VOA

## Prep Batch: 2052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-1	PH04	Total/NA	Solid	8015NM Prep	
890-541-2	PH04A	Total/NA	Solid	8015NM Prep	
890-541-3	PH05	Total/NA	Solid	8015NM Prep	
890-541-4	PH05A	Total/NA	Solid	8015NM Prep	
890-541-5	PH06	Total/NA	Solid	8015NM Prep	
890-541-6	PH06A	Total/NA	Solid	8015NM Prep	
890-541-7	PH07	Total/NA	Solid	8015NM Prep	
890-541-8	PH07A	Total/NA	Solid	8015NM Prep	
890-541-9	PH08	Total/NA	Solid	8015NM Prep	
890-541-10	PH08A	Total/NA	Solid	8015NM Prep	
890-541-11	PH09	Total/NA	Solid	8015NM Prep	
890-541-12	PH09A	Total/NA	Solid	8015NM Prep	
890-541-13	PH10	Total/NA	Solid	8015NM Prep	
890-541-14	PH10A	Total/NA	Solid	8015NM Prep	
MB 880-2052/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2052/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2052/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-541-1 MS	PH04	Total/NA	Solid	8015NM Prep	
890-541-1 MSD	PH04	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 2091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-1	PH04	Total/NA	Solid	8015B NM	2052
890-541-2	PH04A	Total/NA	Solid	8015B NM	2052
890-541-3	PH05	Total/NA	Solid	8015B NM	2052
890-541-4	PH05A	Total/NA	Solid	8015B NM	2052
890-541-5	PH06	Total/NA	Solid	8015B NM	2052
890-541-6	PH06A	Total/NA	Solid	8015B NM	2052
890-541-7	PH07	Total/NA	Solid	8015B NM	2052
890-541-8	PH07A	Total/NA	Solid	8015B NM	2052
890-541-9	PH08	Total/NA	Solid	8015B NM	2052
890-541-10	PH08A	Total/NA	Solid	8015B NM	2052
890-541-11	PH09	Total/NA	Solid	8015B NM	2052
890-541-12	PH09A	Total/NA	Solid	8015B NM	2052
890-541-13	PH10	Total/NA	Solid	8015B NM	2052
890-541-14	PH10A	Total/NA	Solid	8015B NM	2052
MB 880-2052/1-A	Method Blank	Total/NA	Solid	8015B NM	2052
LCS 880-2052/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2052
LCSD 880-2052/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2052
890-541-1 MS	PH04	Total/NA	Solid	8015B NM	2052
890-541-1 MSD	PH04	Total/NA	Solid	8015B NM	2052

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## HPLC/IC

## Leach Batch: 2043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-1	PH04	Soluble	Solid	DI Leach	
890-541-2	PH04A	Soluble	Solid	DI Leach	
890-541-3	PH05	Soluble	Solid	DI Leach	
890-541-4	PH05A	Soluble	Solid	DI Leach	
890-541-5	PH06	Soluble	Solid	DI Leach	
890-541-6	PH06A	Soluble	Solid	DI Leach	
MB 880-2043/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2043/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2043/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Leach Batch: 2055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-7	PH07	Soluble	Solid	DI Leach	
890-541-8	PH07A	Soluble	Solid	DI Leach	
890-541-9	PH08	Soluble	Solid	DI Leach	
890-541-10	PH08A	Soluble	Solid	DI Leach	
890-541-11	PH09	Soluble	Solid	DI Leach	
890-541-12	PH09A	Soluble	Solid	DI Leach	
890-541-13	PH10	Soluble	Solid	DI Leach	
890-541-14	PH10A	Soluble	Solid	DI Leach	
MB 880-2055/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2055/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2055/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 2093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-1	PH04	Soluble	Solid	300.0	2043
890-541-2	PH04A	Soluble	Solid	300.0	2043
890-541-3	PH05	Soluble	Solid	300.0	2043
890-541-4	PH05A	Soluble	Solid	300.0	2043
890-541-5	PH06	Soluble	Solid	300.0	2043
890-541-6	PH06A	Soluble	Solid	300.0	2043
MB 880-2043/1-A	Method Blank	Soluble	Solid	300.0	2043
LCS 880-2043/2-A	Lab Control Sample	Soluble	Solid	300.0	2043
LCSD 880-2043/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2043

## Analysis Batch: 2094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-541-7	PH07	Soluble	Solid	300.0	2055
890-541-8	PH07A	Soluble	Solid	300.0	2055
890-541-9	PH08	Soluble	Solid	300.0	2055
890-541-10	PH08A	Soluble	Solid	300.0	2055
890-541-11	PH09	Soluble	Solid	300.0	2055
890-541-12	PH09A	Soluble	Solid	300.0	2055
890-541-13	PH10	Soluble	Solid	300.0	2055
890-541-14	PH10A	Soluble	Solid	300.0	2055
MB 880-2055/1-A	Method Blank	Soluble	Solid	300.0	2055
LCS 880-2055/2-A	Lab Control Sample	Soluble	Solid	300.0	2055
LCSD 880-2055/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2055

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## Client Sample ID: PH04

Lab Sample ID: 890-541-1

Date Collected: 04/19/21 11:09

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 18:02	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 17:00	AJ	XM
Soluble	Leach	DI Leach			2043	04/20/21 13:04	CH	XM
Soluble	Analysis	300.0		1	2093	04/21/21 17:23	CH	XM

## Client Sample ID: PH04A

Lab Sample ID: 890-541-2

Date Collected: 04/19/21 11:11

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 18:22	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 18:03	AJ	XM
Soluble	Leach	DI Leach			2043	04/20/21 13:04	CH	XM
Soluble	Analysis	300.0		1	2093	04/21/21 17:28	CH	XM

## Client Sample ID: PH05

Lab Sample ID: 890-541-3

Date Collected: 04/19/21 11:20

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 18:43	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 18:24	AJ	XM
Soluble	Leach	DI Leach			2043	04/20/21 13:04	CH	XM
Soluble	Analysis	300.0		1	2093	04/21/21 17:33	CH	XM

## Client Sample ID: PH05A

Lab Sample ID: 890-541-4

Date Collected: 04/19/21 11:21

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 19:03	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 18:45	AJ	XM
Soluble	Leach	DI Leach			2043	04/20/21 13:04	CH	XM
Soluble	Analysis	300.0		1	2093	04/21/21 17:38	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

## Client Sample ID: PH06

Lab Sample ID: 890-541-5

Date Collected: 04/19/21 11:29

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 19:24	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 19:06	AJ	XM
Soluble	Leach	DI Leach			2043	04/20/21 13:04	CH	XM
Soluble	Analysis	300.0		1	2093	04/21/21 17:43	CH	XM

## Client Sample ID: PH06A

Lab Sample ID: 890-541-6

Date Collected: 04/19/21 11:30

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 19:44	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 19:28	AJ	XM
Soluble	Leach	DI Leach			2043	04/20/21 13:04	CH	XM
Soluble	Analysis	300.0		1	2093	04/21/21 17:48	CH	XM

## Client Sample ID: PH07

Lab Sample ID: 890-541-7

Date Collected: 04/19/21 11:37

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 20:04	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 19:49	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 09:28	CH	XM

## Client Sample ID: PH07A

Lab Sample ID: 890-541-8

Date Collected: 04/19/21 11:38

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 20:25	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 20:10	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 09:33	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.

Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1

SDG: TE012921033

## Client Sample ID: PH08

Lab Sample ID: 890-541-9

Date Collected: 04/19/21 11:46

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 20:45	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 20:31	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 09:38	CH	XM

## Client Sample ID: PH08A

Lab Sample ID: 890-541-10

Date Collected: 04/19/21 11:48

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2085	04/21/21 10:10	KL	XM
Total/NA	Analysis	8021B		1	2084	04/21/21 21:06	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 20:52	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 09:43	CH	XM

## Client Sample ID: PH09

Lab Sample ID: 890-541-11

Date Collected: 04/19/21 11:57

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2086	04/21/21 10:15	KL	XM
Total/NA	Analysis	8021B		1	2080	04/22/21 00:20	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 21:34	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 09:58	CH	XM

## Client Sample ID: PH09A

Lab Sample ID: 890-541-12

Date Collected: 04/19/21 11:58

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2086	04/21/21 10:15	KL	XM
Total/NA	Analysis	8021B		1	2080	04/22/21 00:40	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 21:55	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 10:04	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Client Sample ID: PH10

Lab Sample ID: 890-541-13

Date Collected: 04/19/21 12:08

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2086	04/21/21 10:15	KL	XM
Total/NA	Analysis	8021B		1	2080	04/22/21 01:01	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 22:16	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 10:09	CH	XM

Client Sample ID: PH10A

Lab Sample ID: 890-541-14

Date Collected: 04/19/21 12:09

Matrix: Solid

Date Received: 04/19/21 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2086	04/21/21 10:15	KL	XM
Total/NA	Analysis	8021B		1	2080	04/22/21 01:21	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/20/21 15:03	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 22:38	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	CH	XM
Soluble	Analysis	300.0		1	2094	04/21/21 10:14	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: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

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.

Job ID: 890-541-1

Project/Site: Corral Canyon 10E (2-15-21)

SDG: TE012921033

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: Corral Canyon 10E (2-15-21)

Job ID: 890-541-1  
SDG: TE012921033

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-541-1	PH04	Solid	04/19/21 11:09	04/19/21 15:21	- 1
890-541-2	PH04A	Solid	04/19/21 11:11	04/19/21 15:21	- 2
890-541-3	PH05	Solid	04/19/21 11:20	04/19/21 15:21	- 1
890-541-4	PH05A	Solid	04/19/21 11:21	04/19/21 15:21	- 2
890-541-5	PH06	Solid	04/19/21 11:29	04/19/21 15:21	- 1
890-541-6	PH06A	Solid	04/19/21 11:30	04/19/21 15:21	- 2
890-541-7	PH07	Solid	04/19/21 11:37	04/19/21 15:21	- 1
890-541-8	PH07A	Solid	04/19/21 11:38	04/19/21 15:21	- 2
890-541-9	PH08	Solid	04/19/21 11:46	04/19/21 15:21	- 1
890-541-10	PH08A	Solid	04/19/21 11:48	04/19/21 15:21	- 2
890-541-11	PH09	Solid	04/19/21 11:57	04/19/21 15:21	- 1
890-541-12	PH09A	Solid	04/19/21 11:58	04/19/21 15:21	- 2
890-541-13	PH10	Solid	04/19/21 12:08	04/19/21 15:21	- 1
890-541-14	PH10A	Solid	04/19/21 12:09	04/19/21 15:21	- 2



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 505-3334  
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Phoenix, AZ (480-335-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-1111  
Hobbs, NM (575-392-7550)

Work Order No: \_\_\_\_\_

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## Chain of Custody

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments	
<b>Program:</b> UST/PST <b>State of Project:</b> Reporting Level II Deliverables: EDD	<input type="checkbox"/> RP <input type="checkbox"/> Growfields <input type="checkbox"/> RC <input type="checkbox"/> \$operfund <input type="checkbox"/> level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> level IV <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:	Corral Canyon 10E (2-15-21)	Turn Around
Project Number:	TE012921033	Routine <input type="checkbox"/>
P.O. Number:	Eddy	Rush: 3 day
Sampler's Name:	William Mather	Due Date:

SAMPLE RECEIPT			Temp Blank:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Wet Ice:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Temperature (°C):	3.4					Thermometer ID		
Received intact:	<input checked="" type="radio"/> Yes	<input type="radio"/> No				Correction Factor:		3.2
Cooler Custody Seals:	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No	N/A			Total Containers:		
Sample Custody Seals:	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No	N/A					

Number of Containers
PA 8015)
EPA 0=8021)
de (EPA 300.0)

ANALYSIS REQUEST

890-541 Chain of Custody


**Work Order Notes**

Incident #: nAPP2105539984





Cost center: 2094371001

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

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total	200.7 / 6010	200.8 / 6020:
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
TCPLP / SPLP 6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471: Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/19/21 2:00pm			4/19/21 15:21



## Chain of Custody

Work Order No: \_\_\_\_\_

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

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Page 2 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	dan.moir@wsp.com

Program: UST/PST	<input type="checkbox"/> RP	<input type="checkbox"/> Crownfields	<input type="checkbox"/> RC	<input type="checkbox"/> \$perfund
State of Project:				
Reporting Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> P/UST	<input type="checkbox"/> RP	<input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:

Project Name:	Corral Canyon 10E (2-15-21)	Turn Around	
Project Number:	TE012921033	Routine	<input type="checkbox"/>
P.O. Number:	Eddy	Rush:	3 day
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
	Temperature (°C):	3.4		Thermometer ID		
	Received intact:	Yes	No	Correction Factor:	3.2	
	Cooler Custody Seals:	Yes	No	Total Containers:		
	Sample Custody Seals:	Yes	No			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST											Sample Comments	
					Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)									
PH09	S	4/19/2021	11:09	11:57	1	X	X	X									Discrete
PH09A	S	4/19/2021	11:11	11:58	1	X	X	X									Discrete
PH10	S	4/19/2021	11:20	12:08	1	X	X	X									Discrete
PH10A	S	4/19/2021	11:21	12:09	1	X	X	X									Discrete

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		

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/19/21 14:00			4/19/21 15:21



- 1
- 2
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

### Bottle Order Information

**Bottle Order**  
**Bottle Order #**  
**Request From Client** 4/20/2021  
**Date Order Posted**  
**Order Status** Ready To Process  
**Prepared By**  
**Deliver By Date:** 4/20/2021 11:59:00PM  
**Lab Project Number**

### Order Completion Information

**Creator** Cioe Clifton  
**Filled by**  
**Sent Date**  
**Sent Via**  
**Tracking #**

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

### Notes to Field Staff:



Scan QR code for field sampler instructions

### Health and Safety Notes:

Preservative

Comment

Relinquished By	Company	Date	Time	Received By	Company	Seal #
Relinquished By	Company	Date	Time	Received By	Company	Seal #

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

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-541-1

SDG Number: TE012921033

Login Number: 541

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: 890-541-1

SDG Number: TE012921033

Login Number: 541

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/20/21 02:30 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 39642

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 39642
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests to complete final remediation of impacted soil remaining in place immediately beneath surface pipelines and active production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place beneath the active production equipment and surface pipelines is delineated vertically by excavation floor samples FS01 through FS08 and pothole soil samples PH01/PH01A through PH03/PH03A, and laterally by pothole soil samples PH04/PH04A through PH10/PH10A. Final remediation of contaminated soil will take place during any future major deconstruction/alteration and/or abandonment, whichever occurs first. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	11/3/2021