

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	nAPP2104347351
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 32.27052 Longitude -103.93682  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Remuda 500	Site Type	CTB
Date Release Discovered	2/08/2021	API#	(if applicable)

Unit Letter	Section	Township	Range	County
O	25	23S	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	0.46	Volume Recovered (bbls)	0.21
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	8.75	Volume Recovered (bbls)	7.79
	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 circulation pump seal failed, causing fluids to overflow skid containment. A third-party contractor has been retained for remediation activities.

State of New Mexico  
Oil Conservation Division

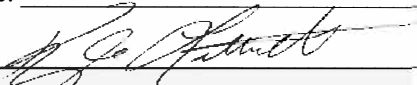
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given 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: 2-12-21
email: kyle.littrell@exxonmobil.com	Telephone: 432-221-7331
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

<b>Location:</b>	<b>Remuda 500 CTB</b>	
<b>Spill Date:</b>	<b>2/8/2021</b>	
<b>Area 1</b>		
Approximate Area =	1808.00	sq. ft.
Average Saturation (or depth) of spill =	1.50	inches
Average Porosity Factor =	0.03	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =	0.46	bbls
Total Produced Water =	8.75	bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	0.46	bbls
Total Produced Water =	8.75	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	0.21	bbls
Total Produced Water =	7.79	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.

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Oil Conservation Division

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Printed Name: Kyle Littrell Title: Environmental Manager

Signature:  Date: 05/03/2021

email: Kyle.Littrell@exxonmobil.com Telephone: (432)-221-7331

**OCD Only**

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

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## Closure

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

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

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

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Printed Name: Kyle Littrell Title: Environmental Manager

Signature:  Date: 05/03/2021

email: Kyle.Littrell@exxonmobil.com Telephone: 432-221-7331

### OCD Only

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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Oil Conservation Division

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Printed Name: Kyle Littrell Title: Environmental ManagerSignature:  Date: 05/03/2021email: Kyle.Littrell@exxonmobil.com Telephone: (432)-221-7331**OCD Only**

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

Incident ID	nAPP2104347351
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Printed Name: Kyle Littrell Title: Environmental Manager

Signature:  Date: 05/03/2021

email: Kyle.Littrell@exxonmobil.com Telephone: 432-221-7331

### OCD Only

Received by: Robert Hamlet Date: 8/18/2021

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

Closure Approved by: Robert Hamlet Date: 8/18/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced





WSP USA

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

May 3, 2021

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

**RE: Closure Request  
Remuda 500  
Incident Number nAPP2104347351  
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Remuda 500 (Site) in Unit O, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of crude oil and produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number nAPP2104347351.

## **RELEASE BACKGROUND**

On February 8, 2021, a circulation pump seal failed resulting in the release of approximately 0.46 barrels (bbls) of crude oil and 8.75 bbls of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 0.21 bbls of crude oil and 7.79 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on February 12, 2021 and was assigned Incident Number nAPP2104347351.

## **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 January 2021, WSP installed a soil boring (C-4494) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4494 was drilled to a depth of 105 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 0.3 miles northwest 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 105 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 unnamed dry wash located approximately 350 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

## **CLOSURE CRITERIA**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-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 AND SOIL SAMPLING ACTIVITIES**

On March 23, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release occurred in an area of active process equipment with limited access. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent from a depth of approximately 0.3 feet bgs to assess for the presence or absence of impacted soil. Preliminary sample SS02 was collected in the area nearest to the point of release. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.



The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) 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 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional site assessment activities were scheduled.

### **DELINEATION SOIL SAMPLING ACTIVITIES**

On April 14, 2021, WSP personnel returned to the Site to oversee additional site assessment activities. Seven potholes (PH01 through PH07) were advanced using a track-mounted backhoe to a depth of 3 feet bgs to confirm the absence of impacted soil. Potholes PH01 and PH02 were advanced within the release extent at the SS01 and SS02 preliminary soil sample locations. Potholes PH03 through PH07 were advanced in accessible areas around the release extent and active process equipment. Delineation soil samples were collected from each pothole from depths of 1-foot and 3 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The location of potholes PH01 through PH07 are presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico. Photographic documentation of the Site visits is included in Attachment 3.

### **SOIL ANALYTICAL RESULTS**

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional site assessment activities were completed.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH07 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

District II  
Page 4**CLOSURE REQUEST**

Preliminary soil samples SS01 and SS02 and delineation soil samples from potholes PH01 through PH07 were collected within and around the release extent to assess for the presence or absence impacted soil resulting from the February 8, 2021 crude oil and produced water release. Laboratory analytical results for the preliminary and delineation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Initial response efforts, which included recovery of the majority of the release fluids via hydrovac, mitigated impacts at this Site. Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria, and confirmed depth to groundwater greater than 100 feet bgs, no impacted soil was identified, and no excavation was required as a result of the crude oil and produced water release. XTO respectfully requests NFA for Incident Number nAPP2104347351.

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 "Elizabeth Naka".

Elizabeth Naka  
Assistant Consultant, Environmental Scientist

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

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

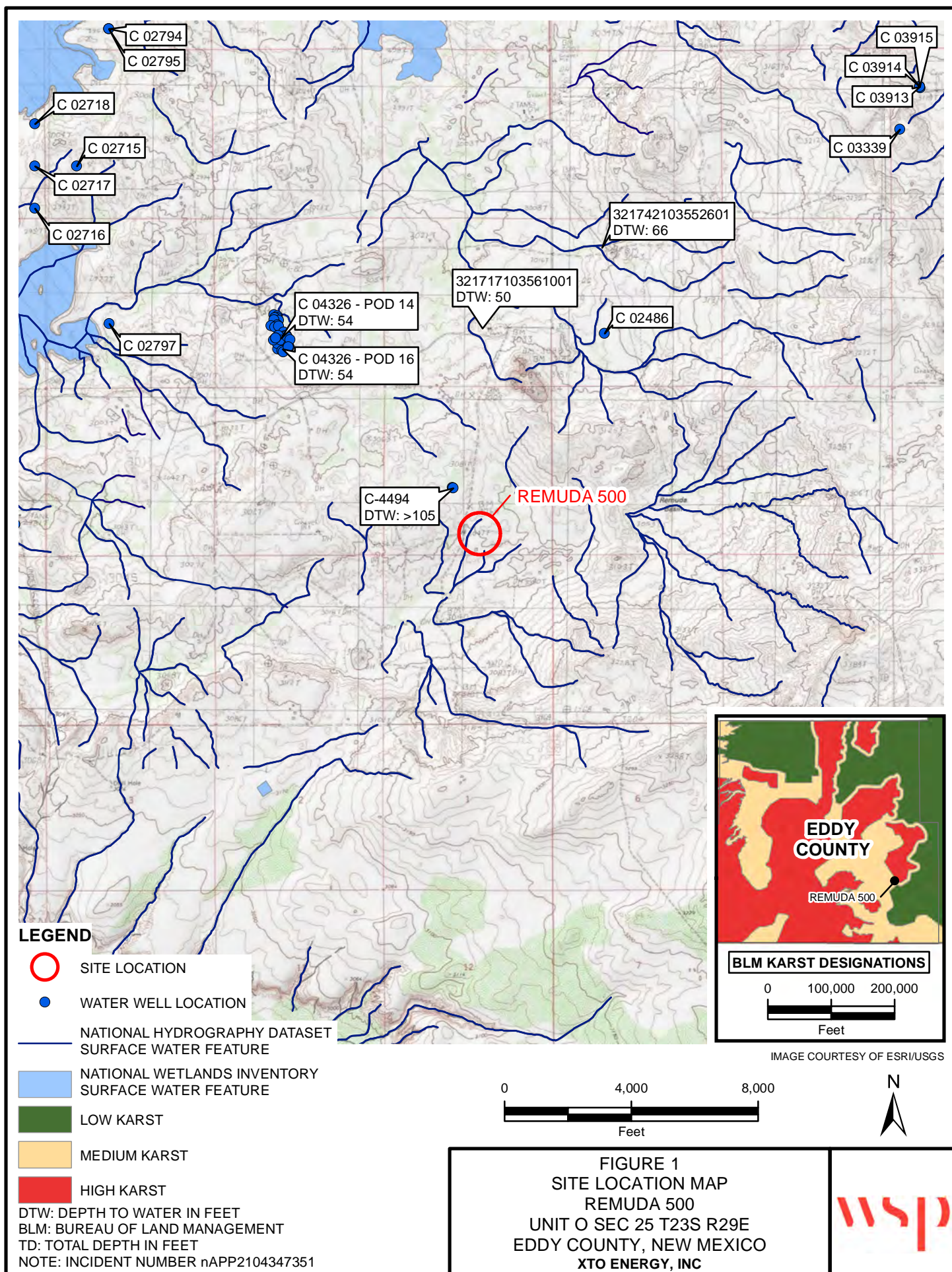
cc: Kyle Littrell, XTO  
Ryan Mann, New Mexico State Land Office

**Attachments:**

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

FIGURES





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**LEGEND**

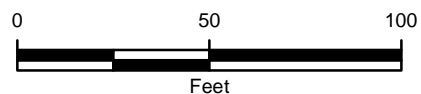
IMAGE COURTESY OF ESRI



RELEASE LOCATION

PRELIMINARY SOIL SAMPLE IN COMPLIANCE  
WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT



NOTE: INCIDENT NUMBER nAPP2104347351  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**PRELIMINARY SOIL SAMPLE LOCATIONS**  
**REMUDA 500**  
**UNIT O SEC 25 T23S R29E**  
**EDDY COUNTY, NEW MEXICO**  
**XTO ENERGY, INC.**



**LEGEND**

IMAGE COURTESY OF ESRI



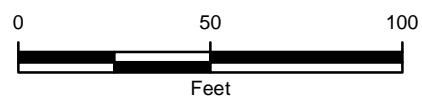
RELEASE LOCATION

DELINEATION SOIL SAMPLE IN COMPLIANCE  
WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT



INFRASTRUCTURE

NOTE: INCIDENT NUMBER nAPP2104347351  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 3**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
 REMUDA 500  
 UNIT O SEC 25 T23S R29E  
 EDDY COUNTY, NEW MEXICO  
 XTO ENERGY, INC.





TABLES

Table 1

Soil Analytical Results  
Remuda 500  
Incident Number nAPP2104347351  
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)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	03/23/2021	0.3	<0.00200	<0.00200	184	375	82.4	559	641	7,280
SS02	03/23/2021	0.3	<0.00199	0.00487	94.7	282	100	376.7	477	4,720
Delineation Samples										
PH01	04/14/2021	1.0	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	166
PH01A	04/14/2021	3.0	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	197
PH02	04/14/2021	1.0	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	1,080
PH02A	04/14/2021	3.0	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	903
PH03	04/14/2021	1.0	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	115
PH03A	04/14/2021	3.0	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	165
PH04	04/14/2021	1.0	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	41.4
PH04A	04/14/2021	3.0	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	65.5
PH05	04/14/2021	1.0	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	195
PH05A	04/14/2021	3.0	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	70.4
PH06	04/14/2021	1.0	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	287
PH06A	04/14/2021	3.0	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	389
PH07	04/14/2021	1.0	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	725
PH07A	04/14/2021	3.0	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	101

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code


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


NE - Not Established


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


Greyed data represents samples that were excavated


ATTACHMENT 1: REFERENCED WELL RECORD

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-4494)		11/18/2020, 12/02/20, 01/05/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number:		TE012919039				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments:								
Lithology remarks only. No field screenings: Dry hole								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			1	SP-SC	
						2		0-1' : SAND, dry, brown, poorly graded, fine grain, Clay (10% clay), some roots, no stain, no odor
						3		
						4		1-4' : SAND, dry, reddish-light brown, poorly graded, very fine - fine grain, some rounded caliche pebbles, no stain, no odor
D			N			5	CCHE	
						6		4-9' : CALICHE, dry, light brown-tan, poorly consolidated, sub-rounded caliche pebbles and gravel, very silty, gradational
						7		
						8		9-14' : Abundant sub-round caliche gravel
						9		14-19' : Some sub-angular caliche gravel and pebbles
						10		19-24' : Abundant sub-angular caliche gravel and pebbles, moderately consolidated
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
D			N			25	CL	

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name:		Date:	
								BH01 (C-4494)		11/18/2020, 12/02/20, 01/05/2021	
								Site Name:		Remuda North 25 Observation Well	
								RP or Incident Number:			
LITHOLOGIC / SOIL SAMPLING LOG								LTE Job Number:		TE012919039	
Lat/Long:				Field Screening:				Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Hole Diameter:				Total Depth:				6.25", 4.25"		105'	
Comments: Lithology remarks only. No field screenings: Dry hole											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D			N			26	CL	24-39' : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tain, no odor, sharp transition  34-39' : Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown  At 39' : Begin air rotary (4.25")  39-42' : DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, no odor, light to moderate reaction with HCl  42-45' : Some light gray dolomite with trace dissolution features (>1mm)  At 48' : Stop due to air rotary refusal (11/18/20)			
						27					
						28					
						29					
						30					
						31					
						32					
						33					
						34					
						35					
						36		48-56' : Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor			
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					
						45					
						46		Refusal on 11/18/20 Restart borehole on 12/02/20			
						47					
						48					
						49					
						50					

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-4494)		11/18/2020, 12/02/2020, 1/5/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number: TE012919039						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N		51	51	DOL	48-56' : Advanced borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray- banding, no stain no odor
					52	52		
					53	53		
					54	54		
					55	55		
					56	56		
					57	57		
					58	58		
					59	59		
					60	60		
D			N		61	61	CH-S	At 56' : Restarted borehole on 1/5/2021 with sonic rig  56-65' : DOLOMITE, dry, light gray-gray, well consolidated, some calcium crystalline veins (<1mm), some dissolution features (2mm) with fine calcite crystalline, trace orange oxidation staining within dissolution features, no stain, no odor  62' : Brown-pale yellow coarse crystalline dolomitic limestone stringer (2cm) 63-65' : Abundant calcite crystalline veins (<1mm), pale green-gray, poorly consolidated  65-69' : MUDSTONE, moist, reddish brown, poorly consolidated, high plasticity, cohesive, abundant coarse crystalline gypsum, few pale green-gray mottling, no stain, no odor  69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
					62	62		
					63	63		
					64	64		
					65	65		
					66	66		
					67	67		
					68	68		
					69	69		
					70	70		
					71	71		
					72	72		
					73	73		
					74	74		
					75	75		
							GYP	

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-4494)		11/18/2020, 12/02/2020, 1/5/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number: TE012919039						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			76	GYP	69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
						77		
						78		
						79		
						80		
						81	CH-S	90-98' : Some fine grain brown sand  At 97' : dark gray-gray gypsum stringer (4cm)
						82		
						83		
						84		
						85		
						86		
						87		
						88		
						89		
						90		
						91		
						92		
						93		
94								
95								
96								
97								
D			N			98	GYP	
						99		
D			N			100	ML-S	

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:	
					BH01 (C-4494)		11/18/2020, 12/02/2020, 1/5/2021	
					Site Name:		Remuda North 25 Observation Well	
					RP or Incident Number:			
					LTE Job Number: TE012919039			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:			Field Screening:		Hole Diameter:		Total Depth:	
					6.25", 4.25"		105'	
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			101	ML-S	99.5-105' : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor
						102		
						103		
						104		
						105		
						106		TD @ 105' bgs (1/5/2021)
						107		
						108		
						109		
						110		
						111		
						112		
						113		
						114		
						115		
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						120		
						121		
						122		
						123		
						124		
						125		



ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

Released to Imaging: 8/18/2021 11:47:49 AM

[illegible]

Released to Imaging: 8/18/2021 11:47:49 AM

Released to Imaging: 8/18/2021 11:47:49 AM

[illegible]

Released to Imaging: 8/18/2021 11:47:49 AM

Released to Imaging: 8/18/2021 11:47:49 AM



ATTACHMENT 3: PHOTOGRAPHIC LOG



## PHOTOGRAPHIC LOG

XTO Energy, Inc.	Remuda 500 Eddy County, New Mexico	nAPP2104347351
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Photo No.	Date	
1	March 23, 2021	
View of release between tank batteries and process equipment facing west.		

Photo No.	Date	
2	March 23, 2021	
View of release extent around and beneath equipment facing south.		



**PHOTOGRAPHIC LOG****XTO Energy, Inc.****Remuda 500  
Eddy County, New Mexico****nAPP2104347351****Photo No.**

3

**Date**

April 14, 2021

View of locations of PH01, PH03,  
and PH04 facing southeast**Photo No.**

4

**Date**

April 14, 2021

View of locations of PH06 and  
PH07, west of the release  
extent, facing north.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing  
America

## ANALYTICAL REPORT

Job Number: 890-410-1  
SDG Number: TE012921030  
Job Description: Remuda 500

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  
4/5/2021 8:30 AM

---

Jessica Kramer, Project Manager  
1211 W. Florida Ave, Midland, TX, 79701  
jessica.kramer@eurofinset.com  
04/05/2021

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.  
Project/Site: Remuda 500

Job ID: 890-410-1  
SDG: TE012921030

Lab Sample ID:	890-410-1	890-410-2
Client Sample ID:	SS01	SS02
Depth:	0.3	0.3
Matrix:	Solid	Solid
Date Collected:	03/23/2021 10:44	03/23/2021 10:52

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

Prepared:	04/02/2021 09:30	04/02/2021 09:30
Analyzed:	04/02/2021 18:31	04/02/2021 18:51

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Benzene		<0.00200 U	0.00200	<0.00199 U	0.00199
Ethylbenzene		<0.00200 U	0.00200	<0.00199 U	0.00199
Toluene		<0.00200 U	0.00200	0.00487	0.00199
Total BTEX		<0.00200 U	0.00200	0.00487	0.00199
Xylenes, Total		<0.00400 U	0.00400	<0.00398 U	0.00398
m-Xylene & p-Xylene		<0.00400 U	0.00400	<0.00398 U	0.00398
o-Xylene		<0.00200 U	0.00200	<0.00199 U	0.00199

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

Prepared:	04/01/2021 14:29	04/01/2021 14:29
Analyzed:	04/02/2021 23:40	04/03/2021 00:01

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organics (GRO)-C6-C10		184	49.8	94.7	50.0
Diesel Range Organics (Over C10-C28)		375	49.8	282	50.0
Oil Range Organics (Over C28-C36)		82.4	49.8	100	50.0
Total TPH		641	49.8	477	50.0

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

Prepared:		
Analyzed:	04/01/2021 01:42	04/01/2021 01:48

Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Chloride		7280	50.1	4720	25.3



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-529-1  
Laboratory Sample Delivery Group: TE012921030  
Client Project/Site: Remuda 500

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 4:15:33 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: Remuda 500

Laboratory Job ID: 890-529-1  
SDG: TE012921030

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

### Job ID: 890-529-1

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

#### Job Narrative 890-529-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/15/2021 12:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

#### Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-529-1), PH01A (890-529-2), PH02 (890-529-3), PH02A (890-529-4), PH03 (890-529-5), PH03A (890-529-6), PH04 (890-529-7), PH04A (890-529-8), PH05 (890-529-9), PH05A (890-529-10), PH06 (890-529-11), PH06A (890-529-12), PH07 (890-529-13) and PH07A (890-529-14).

#### GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: PH03 (890-529-5), PH03A (890-529-6) and PH04 (890-529-7). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH07A (890-529-14). 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 continuing calibration verification (CCV) associated with batch 880-1967 recovered above the upper control limit for Diesel Range Organics (Over C10-C28)>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH01

Lab Sample ID: 890-529-1

Date Collected: 04/14/21 10:06

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 23:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 23:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 23:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/16/21 23:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 23:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/16/21 23:02	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/16/21 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/16/21 12:15	04/16/21 23:02	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/16/21 12:15	04/16/21 23:02	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		04/16/21 16:52	04/19/21 13:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 13:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 13:59	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	04/16/21 16:52	04/19/21 13:59	1
o-Terphenyl	125		70 - 130	04/16/21 16:52	04/19/21 13:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		5.00	mg/Kg			04/19/21 20:04	1

Client Sample ID: PH01A

Lab Sample ID: 890-529-2

Date Collected: 04/14/21 10:40

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/16/21 12:15	04/16/21 23:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/16/21 12:15	04/16/21 23:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/16/21 12:15	04/16/21 23:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/16/21 12:15	04/16/21 23:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/16/21 12:15	04/16/21 23:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/16/21 12:15	04/16/21 23:23	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		04/16/21 12:15	04/16/21 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/16/21 12:15	04/16/21 23:23	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/16/21 12:15	04/16/21 23:23	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## Client Sample ID: PH01A

Lab Sample ID: 890-529-2

Date Collected: 04/14/21 10:40

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

## 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		04/16/21 16:52	04/19/21 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 15:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 15:06	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	04/16/21 16:52	04/19/21 15:06	1
o-Terphenyl	123		70 - 130	04/16/21 16:52	04/19/21 15:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		4.99	mg/Kg			04/20/21 15:12	1

## Client Sample ID: PH02

Lab Sample ID: 890-529-3

Date Collected: 04/14/21 10:59

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 01:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 01:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 01:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/16/21 12:15	04/17/21 01:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 01:12	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/16/21 12:15	04/17/21 01:12	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/16/21 12:15	04/17/21 01:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/16/21 12:15	04/17/21 01:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/16/21 12:15	04/17/21 01:12	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		04/16/21 16:52	04/19/21 20:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 20:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 20:14	1
Total TPH	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/16/21 16:52	04/19/21 20:14	1
o-Terphenyl	127		70 - 130	04/16/21 16:52	04/19/21 20:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		4.95	mg/Kg			04/20/21 15:27	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH02A

Lab Sample ID: 890-529-4

Date Collected: 04/14/21 11:13

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/17/21 01:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/17/21 01:33	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/17/21 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/16/21 12:15	04/17/21 01:33	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/16/21 12:15	04/17/21 01:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 20:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 20:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 20:35	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/16/21 16:52	04/19/21 20:35	1
o-Terphenyl	118		70 - 130	04/16/21 16:52	04/19/21 20:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	903		24.8	mg/Kg			04/20/21 15:32	5

Client Sample ID: PH03

Lab Sample ID: 890-529-5

Date Collected: 04/14/21 12:50

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/17/21 01:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/17/21 01:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/17/21 01:53	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/17/21 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/16/21 12:15	04/17/21 01:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/16/21 12:15	04/17/21 01:53	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH03

Lab Sample ID: 890-529-5

Date Collected: 04/14/21 12:50

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

## 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		04/16/21 16:52	04/19/21 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:13	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/16/21 16:52	04/19/21 16:13	1
o-Terphenyl	127		70 - 130	04/16/21 16:52	04/19/21 16:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		4.99	mg/Kg			04/20/21 15:48	1

Client Sample ID: PH03A

Lab Sample ID: 890-529-6

Date Collected: 04/14/21 13:36

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/16/21 12:15	04/17/21 02:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/16/21 12:15	04/17/21 02:14	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/16/21 12:15	04/17/21 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	04/16/21 12:15	04/17/21 02:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/16/21 12:15	04/17/21 02:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:35	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/16/21 16:52	04/19/21 16:35	1
o-Terphenyl	113		70 - 130	04/16/21 16:52	04/19/21 16:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		24.9	mg/Kg			04/20/21 15:53	5

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH04

Lab Sample ID: 890-529-7

Date Collected: 04/14/21 13:52

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/16/21 12:15	04/17/21 02:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 02:34	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/16/21 12:15	04/17/21 02:34	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/16/21 12:15	04/17/21 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/16/21 12:15	04/17/21 02:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/16/21 12:15	04/17/21 02:34	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		04/16/21 16:52	04/19/21 16:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:58	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/16/21 16:52	04/19/21 16:58	1
o-Terphenyl	112		70 - 130	04/16/21 16:52	04/19/21 16:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.4		5.00	mg/Kg			04/20/21 15:58	1

Client Sample ID: PH04A

Lab Sample ID: 890-529-8

Date Collected: 04/14/21 14:05

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 02:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 02:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 02:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/16/21 12:15	04/17/21 02:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 02:55	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/16/21 12:15	04/17/21 02:55	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		04/16/21 12:15	04/17/21 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/16/21 12:15	04/17/21 02:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/16/21 12:15	04/17/21 02:55	1

Eurofins Xenco, Carlsbad



## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH04A

Lab Sample ID: 890-529-8

Date Collected: 04/14/21 14:05

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

## 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		04/16/21 16:52	04/19/21 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:20	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/16/21 16:52	04/19/21 17:20	1
o-Terphenyl	101		70 - 130	04/16/21 16:52	04/19/21 17:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		5.00	mg/Kg			04/20/21 16:03	1

Client Sample ID: PH05

Lab Sample ID: 890-529-9

Date Collected: 04/14/21 14:11

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 03:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 03:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 03:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/16/21 12:15	04/17/21 03:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/16/21 12:15	04/17/21 03:15	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/16/21 12:15	04/17/21 03:15	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		04/16/21 12:15	04/17/21 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/16/21 12:15	04/17/21 03:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/16/21 12:15	04/17/21 03:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:42	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	04/16/21 16:52	04/19/21 17:42	1
o-Terphenyl	138	S1+	70 - 130	04/16/21 16:52	04/19/21 17:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	195		25.2	mg/Kg			04/20/21 16:08	5

Eurofins Xenco, Carlsbad



## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH05A

Lab Sample ID: 890-529-10

Date Collected: 04/14/21 14:18

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/16/21 12:15	04/17/21 03:35	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/16/21 12:15	04/17/21 03:35	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/16/21 12:15	04/17/21 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/16/21 12:15	04/17/21 03:35	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/16/21 12:15	04/17/21 03:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 18:03	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	04/16/21 16:52	04/19/21 18:03	1
o-Terphenyl	131	S1+	70 - 130	04/16/21 16:52	04/19/21 18:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.4		5.04	mg/Kg			04/20/21 16:13	1

Client Sample ID: PH06

Lab Sample ID: 890-529-11

Date Collected: 04/14/21 14:50

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/16/21 12:15	04/17/21 03:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/16/21 12:15	04/17/21 03:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/16/21 12:15	04/17/21 03:56	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/16/21 12:15	04/17/21 03:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/16/21 12:15	04/17/21 03:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/16/21 12:15	04/17/21 03:56	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH06

Lab Sample ID: 890-529-11

Date Collected: 04/14/21 14:50

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

## 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		04/16/21 16:52	04/19/21 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 18:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 18:46	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/16/21 16:52	04/19/21 18:46	1
o-Terphenyl	135	S1+	70 - 130	04/16/21 16:52	04/19/21 18:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		25.0	mg/Kg			04/20/21 16:18	5

Client Sample ID: PH06A

Lab Sample ID: 890-529-12

Date Collected: 04/14/21 14:59

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 04:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 04:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 04:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/16/21 12:15	04/17/21 04:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/17/21 04:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/16/21 12:15	04/17/21 04:16	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/16/21 12:15	04/17/21 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/16/21 12:15	04/17/21 04:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/16/21 12:15	04/17/21 04:16	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		04/16/21 16:52	04/19/21 19:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 19:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 19:08	1
Total TPH	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	04/16/21 16:52	04/19/21 19:08	1
o-Terphenyl	136	S1+	70 - 130	04/16/21 16:52	04/19/21 19:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	389		24.8	mg/Kg			04/22/21 11:20	5

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH07

Lab Sample ID: 890-529-13

Date Collected: 04/14/21 15:13

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 16:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 16:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 16:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/16/21 15:25	04/19/21 16:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 16:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/16/21 15:25	04/19/21 16:01	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/16/21 15:25	04/19/21 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/16/21 15:25	04/19/21 16:01	1
1,4-Difluorobenzene (Surr)	120		70 - 130	04/16/21 15:25	04/19/21 16:01	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		04/16/21 16:52	04/19/21 19:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 19:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 19:30	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/16/21 16:52	04/19/21 19:30	1
o-Terphenyl	104		70 - 130	04/16/21 16:52	04/19/21 19:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	725		4.95	mg/Kg			04/22/21 11:28	1

Client Sample ID: PH07A

Lab Sample ID: 890-529-14

Date Collected: 04/14/21 15:21

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 16:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 16:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 16:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/21 15:25	04/19/21 16:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 16:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/21 15:25	04/19/21 16:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/16/21 15:25	04/19/21 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	04/16/21 15:25	04/19/21 16:22	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/16/21 15:25	04/19/21 16:22	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH07A

Lab Sample ID: 890-529-14

Date Collected: 04/14/21 15:21

Matrix: Solid

Date Received: 04/15/21 12:22

Sample Depth: - 3.0

## 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		04/16/21 16:52	04/19/21 19:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 19:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 19:52	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	04/16/21 16:52	04/19/21 19:52	1
o-Terphenyl	120		70 - 130	04/16/21 16:52	04/19/21 19:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00	mg/Kg			04/22/21 11:35	1

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## 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)				
890-529-1	PH01	109	107				
890-529-2	PH01A	110	107				
890-529-3	PH02	107	103				
890-529-4	PH02A	108	108				
890-529-5	PH03	120	92				
890-529-6	PH03A	124	99				
890-529-7	PH04	113	102				
890-529-8	PH04A	110	107				
890-529-9	PH05	113	104				
890-529-10	PH05A	108	106				
890-529-11	PH06	113	108				
890-529-12	PH06A	110	105				
890-529-13	PH07	99	120				
890-529-14	PH07A	120	103				
LCS 880-1895/1-A	Lab Control Sample	100	106				
LCS 880-1901/1-A	Lab Control Sample	89	108				
LCSD 880-1895/2-A	Lab Control Sample Dup	101	105				
LCSD 880-1901/2-A	Lab Control Sample Dup	88	108				
MB 880-1895/5-A	Method Blank	99	103				
MB 880-1901/5-A	Method Blank	109	89				
<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)				
890-529-1	PH01	114	125				
890-529-1 MS	PH01	124	109				
890-529-1 MSD	PH01	118	98				
890-529-2	PH01A	119	123				
890-529-3	PH02	112	127				
890-529-4	PH02A	112	118				
890-529-5	PH03	115	127				
890-529-6	PH03A	110	113				
890-529-7	PH04	112	112				
890-529-8	PH04A	104	101				
890-529-9	PH05	116	138 S1+				
890-529-10	PH05A	107	131 S1+				
890-529-11	PH06	112	135 S1+				
890-529-12	PH06A	114	136 S1+				
890-529-13	PH07	101	104				
890-529-14	PH07A	118	120				
LCS 880-1907/2-A	Lab Control Sample	108	125				
LCSD 880-1907/3-A	Lab Control Sample Dup	119	105				
MB 880-1907/1-A	Method Blank	117	139 S1+				

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

1

2

3

4

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9

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11

12

13

14

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

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

Lab Sample ID: MB 880-1895/5-A

Matrix: Solid

Analysis Batch: 1905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1895

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/16/21 19:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/16/21 12:15	04/16/21 19:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/16/21 12:15	04/16/21 19:50	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/16/21 12:15	04/16/21 19:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/16/21 12:15	04/16/21 19:50	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/16/21 12:15	04/16/21 19:50	1

Lab Sample ID: LCS 880-1895/1-A

Matrix: Solid

Analysis Batch: 1905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08670		mg/Kg		87	70 - 130
Toluene	0.100	0.09622		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2078		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1015		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-1895/2-A

Matrix: Solid

Analysis Batch: 1905

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08446		mg/Kg		84	70 - 130	3	35
Toluene	0.100	0.09074		mg/Kg		91	70 - 130	6	35
Ethylbenzene	0.100	0.09413		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1926		mg/Kg		96	70 - 130	8	35
o-Xylene	0.100	0.09473		mg/Kg		95	70 - 130	7	35

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

Lab Sample ID: MB 880-1901/5-A

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1901

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

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

Lab Sample ID: MB 880-1901/5-A

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1901

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/16/21 15:25	04/19/21 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/16/21 15:25	04/19/21 13:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/16/21 15:25	04/19/21 13:34	1

Lab Sample ID: LCS 880-1901/1-A

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09330		mg/Kg		93	70 - 130
Toluene	0.100	0.09946		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09902		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1966		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09692		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-1901/2-A

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09251		mg/Kg		93	70 - 130	1	35
Toluene	0.100	0.09484		mg/Kg		95	70 - 130	5	35
Ethylbenzene	0.100	0.09385		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1858		mg/Kg		93	70 - 130	6	35
o-Xylene	0.100	0.09071		mg/Kg		91	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Eurofins Xenco, Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

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

Lab Sample ID: MB 880-1907/1-A

Matrix: Solid

Analysis Batch: 1967

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1907

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		04/16/21 16:52	04/19/21 12:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 12:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 12:53	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	04/16/21 16:52	04/19/21 12:53	1
o-Terphenyl	139	S1+	70 - 130	04/16/21 16:52	04/19/21 12:53	1

Lab Sample ID: LCS 880-1907/2-A

Matrix: Solid

Analysis Batch: 1967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	960.7		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1046		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-1907/3-A

Matrix: Solid

Analysis Batch: 1967

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1157		mg/Kg		116	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	948.8		mg/Kg		95	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-529-1 MS

Matrix: Solid

Analysis Batch: 1967

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 1907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1230		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1067		mg/Kg		107	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

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

Lab Sample ID: 890-529-1 MS

Matrix: Solid

Analysis Batch: 1967

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 1907

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-529-1 MSD

Matrix: Solid

Analysis Batch: 1967

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 1907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1155		mg/Kg		116	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	982.6		mg/Kg		98	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	98		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1942/1-A

Matrix: Solid

Analysis Batch: 2014

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			04/19/21 17:32	1

Lab Sample ID: LCS 880-1942/2-A

Matrix: Solid

Analysis Batch: 2014

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1942/3-A

Matrix: Solid

Analysis Batch: 2014

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	258.1		mg/Kg		103	90 - 110	1	20

Lab Sample ID: MB 880-1943/1-A

Matrix: Solid

Analysis Batch: 2049

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			04/20/21 13:46	1

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

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

Lab Sample ID: LCS 880-1943/2-A

Matrix: Solid

Analysis Batch: 2049

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	260.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-1943/3-A

Matrix: Solid

Analysis Batch: 2049

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	261.7		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-529-2 MS

Matrix: Solid

Analysis Batch: 2049

Client Sample ID: PH01A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	197		250	458.4		mg/Kg		105	90 - 110

Lab Sample ID: 890-529-2 MSD

Matrix: Solid

Analysis Batch: 2049

Client Sample ID: PH01A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	197		250	456.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-1944/1-A

Matrix: Solid

Analysis Batch: 2050

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			04/22/21 09:50	1

Lab Sample ID: LCS 880-1944/2-A

Matrix: Solid

Analysis Batch: 2050

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	239.5		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-1944/3-A

Matrix: Solid

Analysis Batch: 2050

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	238.7		mg/Kg		95	90 - 110	0	20

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## GC VOA

## Prep Batch: 1895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-1	PH01	Total/NA	Solid	5035	
890-529-2	PH01A	Total/NA	Solid	5035	
890-529-3	PH02	Total/NA	Solid	5035	
890-529-4	PH02A	Total/NA	Solid	5035	
890-529-5	PH03	Total/NA	Solid	5035	
890-529-6	PH03A	Total/NA	Solid	5035	
890-529-7	PH04	Total/NA	Solid	5035	
890-529-8	PH04A	Total/NA	Solid	5035	
890-529-9	PH05	Total/NA	Solid	5035	
890-529-10	PH05A	Total/NA	Solid	5035	
890-529-11	PH06	Total/NA	Solid	5035	
890-529-12	PH06A	Total/NA	Solid	5035	
MB 880-1895/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1895/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1895/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Prep Batch: 1901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-13	PH07	Total/NA	Solid	5035	
890-529-14	PH07A	Total/NA	Solid	5035	
MB 880-1901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 1905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-1	PH01	Total/NA	Solid	8021B	1895
890-529-2	PH01A	Total/NA	Solid	8021B	1895
890-529-3	PH02	Total/NA	Solid	8021B	1895
890-529-4	PH02A	Total/NA	Solid	8021B	1895
890-529-5	PH03	Total/NA	Solid	8021B	1895
890-529-6	PH03A	Total/NA	Solid	8021B	1895
890-529-7	PH04	Total/NA	Solid	8021B	1895
890-529-8	PH04A	Total/NA	Solid	8021B	1895
890-529-9	PH05	Total/NA	Solid	8021B	1895
890-529-10	PH05A	Total/NA	Solid	8021B	1895
890-529-11	PH06	Total/NA	Solid	8021B	1895
890-529-12	PH06A	Total/NA	Solid	8021B	1895
MB 880-1895/5-A	Method Blank	Total/NA	Solid	8021B	1895
LCS 880-1895/1-A	Lab Control Sample	Total/NA	Solid	8021B	1895
LCSD 880-1895/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1895

## Analysis Batch: 1966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-13	PH07	Total/NA	Solid	8021B	1901
890-529-14	PH07A	Total/NA	Solid	8021B	1901
MB 880-1901/5-A	Method Blank	Total/NA	Solid	8021B	1901
LCS 880-1901/1-A	Lab Control Sample	Total/NA	Solid	8021B	1901
LCSD 880-1901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1901

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## GC Semi VOA

## Prep Batch: 1907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-1	PH01	Total/NA	Solid	8015NM Prep	
890-529-2	PH01A	Total/NA	Solid	8015NM Prep	
890-529-3	PH02	Total/NA	Solid	8015NM Prep	
890-529-4	PH02A	Total/NA	Solid	8015NM Prep	
890-529-5	PH03	Total/NA	Solid	8015NM Prep	
890-529-6	PH03A	Total/NA	Solid	8015NM Prep	
890-529-7	PH04	Total/NA	Solid	8015NM Prep	
890-529-8	PH04A	Total/NA	Solid	8015NM Prep	
890-529-9	PH05	Total/NA	Solid	8015NM Prep	
890-529-10	PH05A	Total/NA	Solid	8015NM Prep	
890-529-11	PH06	Total/NA	Solid	8015NM Prep	
890-529-12	PH06A	Total/NA	Solid	8015NM Prep	
890-529-13	PH07	Total/NA	Solid	8015NM Prep	
890-529-14	PH07A	Total/NA	Solid	8015NM Prep	
MB 880-1907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-529-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-529-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 1967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-1	PH01	Total/NA	Solid	8015B NM	1907
890-529-2	PH01A	Total/NA	Solid	8015B NM	1907
890-529-3	PH02	Total/NA	Solid	8015B NM	1907
890-529-4	PH02A	Total/NA	Solid	8015B NM	1907
890-529-5	PH03	Total/NA	Solid	8015B NM	1907
890-529-6	PH03A	Total/NA	Solid	8015B NM	1907
890-529-7	PH04	Total/NA	Solid	8015B NM	1907
890-529-8	PH04A	Total/NA	Solid	8015B NM	1907
890-529-9	PH05	Total/NA	Solid	8015B NM	1907
890-529-10	PH05A	Total/NA	Solid	8015B NM	1907
890-529-11	PH06	Total/NA	Solid	8015B NM	1907
890-529-12	PH06A	Total/NA	Solid	8015B NM	1907
890-529-13	PH07	Total/NA	Solid	8015B NM	1907
890-529-14	PH07A	Total/NA	Solid	8015B NM	1907
MB 880-1907/1-A	Method Blank	Total/NA	Solid	8015B NM	1907
LCS 880-1907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1907
LCSD 880-1907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1907
890-529-1 MS	PH01	Total/NA	Solid	8015B NM	1907
890-529-1 MSD	PH01	Total/NA	Solid	8015B NM	1907

## HPLC/IC

## Leach Batch: 1942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-1	PH01	Soluble	Solid	DI Leach	
MB 880-1942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## HPLC/IC

## Leach Batch: 1943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-2	PH01A	Soluble	Solid	DI Leach	
890-529-3	PH02	Soluble	Solid	DI Leach	
890-529-4	PH02A	Soluble	Solid	DI Leach	
890-529-5	PH03	Soluble	Solid	DI Leach	
890-529-6	PH03A	Soluble	Solid	DI Leach	
890-529-7	PH04	Soluble	Solid	DI Leach	
890-529-8	PH04A	Soluble	Solid	DI Leach	
890-529-9	PH05	Soluble	Solid	DI Leach	
890-529-10	PH05A	Soluble	Solid	DI Leach	
890-529-11	PH06	Soluble	Solid	DI Leach	
MB 880-1943/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1943/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1943/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-529-2 MS	PH01A	Soluble	Solid	DI Leach	
890-529-2 MSD	PH01A	Soluble	Solid	DI Leach	

## Leach Batch: 1944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-12	PH06A	Soluble	Solid	DI Leach	
890-529-13	PH07	Soluble	Solid	DI Leach	
890-529-14	PH07A	Soluble	Solid	DI Leach	
MB 880-1944/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1944/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1944/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 2014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-1	PH01	Soluble	Solid	300.0	1942
MB 880-1942/1-A	Method Blank	Soluble	Solid	300.0	1942
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	300.0	1942
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1942

## Analysis Batch: 2049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-2	PH01A	Soluble	Solid	300.0	1943
890-529-3	PH02	Soluble	Solid	300.0	1943
890-529-4	PH02A	Soluble	Solid	300.0	1943
890-529-5	PH03	Soluble	Solid	300.0	1943
890-529-6	PH03A	Soluble	Solid	300.0	1943
890-529-7	PH04	Soluble	Solid	300.0	1943
890-529-8	PH04A	Soluble	Solid	300.0	1943
890-529-9	PH05	Soluble	Solid	300.0	1943
890-529-10	PH05A	Soluble	Solid	300.0	1943
890-529-11	PH06	Soluble	Solid	300.0	1943
MB 880-1943/1-A	Method Blank	Soluble	Solid	300.0	1943
LCS 880-1943/2-A	Lab Control Sample	Soluble	Solid	300.0	1943
LCSD 880-1943/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1943
890-529-2 MS	PH01A	Soluble	Solid	300.0	1943
890-529-2 MSD	PH01A	Soluble	Solid	300.0	1943

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QC Association Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

HPLC/IC

Analysis Batch: 2050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-529-12	PH06A	Soluble	Solid	300.0	1944
890-529-13	PH07	Soluble	Solid	300.0	1944
890-529-14	PH07A	Soluble	Solid	300.0	1944
MB 880-1944/1-A	Method Blank	Soluble	Solid	300.0	1944
LCS 880-1944/2-A	Lab Control Sample	Soluble	Solid	300.0	1944
LCSD 880-1944/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1944



## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH01

Lab Sample ID: 890-529-1

Date Collected: 04/14/21 10:06

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/16/21 23:02	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 13:59	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 20:04	WP	XM

Client Sample ID: PH01A

Lab Sample ID: 890-529-2

Date Collected: 04/14/21 10:40

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/16/21 23:23	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 15:06	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:12	WP	XM

Client Sample ID: PH02

Lab Sample ID: 890-529-3

Date Collected: 04/14/21 10:59

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 01:12	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 20:14	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:27	WP	XM

Client Sample ID: PH02A

Lab Sample ID: 890-529-4

Date Collected: 04/14/21 11:13

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 01:33	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 20:35	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		5	2049	04/20/21 15:32	WP	XM

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

## Client Sample ID: PH03

Lab Sample ID: 890-529-5

Date Collected: 04/14/21 12:50

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 01:53	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 16:13	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:48	WP	XM

## Client Sample ID: PH03A

Lab Sample ID: 890-529-6

Date Collected: 04/14/21 13:36

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 02:14	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 16:35	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		5	2049	04/20/21 15:53	WP	XM

## Client Sample ID: PH04

Lab Sample ID: 890-529-7

Date Collected: 04/14/21 13:52

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 02:34	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 16:58	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:58	WP	XM

## Client Sample ID: PH04A

Lab Sample ID: 890-529-8

Date Collected: 04/14/21 14:05

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 02:55	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 17:20	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 16:03	WP	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH05

Lab Sample ID: 890-529-9

Date Collected: 04/14/21 14:11

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 03:15	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 17:42	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		5	2049	04/20/21 16:08	WP	XM

Client Sample ID: PH05A

Lab Sample ID: 890-529-10

Date Collected: 04/14/21 14:18

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 03:35	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 18:03	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		1	2049	04/20/21 16:13	WP	XM

Client Sample ID: PH06

Lab Sample ID: 890-529-11

Date Collected: 04/14/21 14:50

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 03:56	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 18:46	AJ	XM
Soluble	Leach	DI Leach			1943	04/17/21 18:38	CH	XM
Soluble	Analysis	300.0		5	2049	04/20/21 16:18	WP	XM

Client Sample ID: PH06A

Lab Sample ID: 890-529-12

Date Collected: 04/14/21 14:59

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/17/21 04:16	MR	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 19:08	AJ	XM
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		5	2050	04/22/21 11:20	WP	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Client Sample ID: PH07

Lab Sample ID: 890-529-13

Date Collected: 04/14/21 15:13

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 16:01	KL	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 19:30	AJ	XM
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		1	2050	04/22/21 11:28	WP	XM

Client Sample ID: PH07A

Lab Sample ID: 890-529-14

Date Collected: 04/14/21 15:21

Matrix: Solid

Date Received: 04/15/21 12:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 16:22	KL	XM
Total/NA	Prep	8015NM Prep			1907	04/16/21 16:52	DM	XM
Total/NA	Analysis	8015B NM		1	1967	04/19/21 19:52	AJ	XM
Soluble	Leach	DI Leach			1944	04/17/21 18:39	CH	XM
Soluble	Analysis	300.0		1	2050	04/22/21 11:35	WP	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: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Laboratory: Eurofins Xenco, Midland

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

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

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

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: Remuda 500

Job ID: 890-529-1  
SDG: TE012921030

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-529-1	PH01	Solid	04/14/21 10:06	04/15/21 12:22	- 1.0
890-529-2	PH01A	Solid	04/14/21 10:40	04/15/21 12:22	- 3.0
890-529-3	PH02	Solid	04/14/21 10:59	04/15/21 12:22	- 1.0
890-529-4	PH02A	Solid	04/14/21 11:13	04/15/21 12:22	- 3.0
890-529-5	PH03	Solid	04/14/21 12:50	04/15/21 12:22	- 1.0
890-529-6	PH03A	Solid	04/14/21 13:36	04/15/21 12:22	- 3.0
890-529-7	PH04	Solid	04/14/21 13:52	04/15/21 12:22	- 1.0
890-529-8	PH04A	Solid	04/14/21 14:05	04/15/21 12:22	- 3.0
890-529-9	PH05	Solid	04/14/21 14:11	04/15/21 12:22	- 1.0
890-529-10	PH05A	Solid	04/14/21 14:18	04/15/21 12:22	- 3.0
890-529-11	PH06	Solid	04/14/21 14:50	04/15/21 12:22	- 1.0
890-529-12	PH06A	Solid	04/14/21 14:59	04/15/21 12:22	- 3.0
890-529-13	PH07	Solid	04/14/21 15:13	04/15/21 12:22	- 1.0
890-529-14	PH07A	Solid	04/14/21 15:21	04/15/21 12:22	- 3.0





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

## Chain of Custody

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

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

<b>Program:</b> <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Groundfields <input type="checkbox"/> RC <input type="checkbox"/> Deepfund <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"/> PST/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:	<b>Work Order Comments</b>

Project Name:	Remuda SCV	Turn Around	
Project Number:	TR 018921030	Routine	<input checked="" type="checkbox"/>
P.O. Number:	Spill Date 2/8/21	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

<b>SAMPLE RECEIPT</b>	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature (°C):	4.6	Thermometer ID		
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Total Containers:		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			

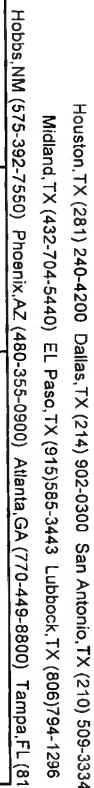
<b>ANALYSIS REQUEST</b>		<b>Work Order Notes</b>	
Number of Containers	1	CC: 1067601001 Inc1 NA002104347351	
TPH (EPA 8015)	<input checked="" type="checkbox"/>	TAT starts the day received by the lab, if received by 4:30pm	
BTEX (EPA 0-8021)	<input checked="" type="checkbox"/>	Sample Comments	
Chloride (EPA 300.0)	<input checked="" type="checkbox"/>	Discrete	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Sample Comments
P101A	S	4/14/21	1606	1.0'	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P101A			1646	3.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P102			1651	1.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P102A			1113	3.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P103			1345	1.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P103A			1336	3.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P104			1352	1.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P104A			1405	3.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P105			1411	1.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
P105A			1418	3.0'		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

**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 on 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



## Chain of Custody

**Work Order No:**

Work Order Comments									
<b>Program:</b> UST/ST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>									
<b>State of Project:</b>									
<b>Reporting Level II</b> <input type="checkbox"/> Level III <input type="checkbox"/> ST/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:	Rewrite 500	Turn Around	ANALYSIS REQUEST						Work Order Notes
Project Number:	TE 612921030	Routine R							EC: 1067601001
P.O. Number:	50.11 Vite. 2/8/21	Rush:							Free:
Sampler's Name:	Jeremy Hill	Due Date:							W4002104347351

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):	4.6	Thermometer ID					
Received Intact:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	TMM-007				
Cooler Custody Seats:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Correction Factor:		4.4		
Sample Custody Seals:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	N/A		Total Containers:		

Number of Containers

PA 8015)



EPA 0=8021)

le (EPA 300.0)

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (E)	BTEX (E)	Chloride	Sample Comments
P1406	S	4/14/11	1450	1.0'	1	X	X	X	Discrete
P1406A			1459	3.0'	1	X	X		
P1407			1513	1.0'	1	X	X		
P1407A			1521	3.0'	1	X	X		

<b>Total 200.7 / 6010</b>	<b>200.8 / 6020:</b>	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
<i>Circle Method(s) and Metal(s) to be analyzed</i>		TCLP / SPLP	6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U													
<p><i>Notice: Signature of client, document and retest/purchase order for 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.</i></p>																																	
<p><b>1631 / 245.1 / 7470 / 7471, -Hg</b></p>																																	

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

Revised Date 03/14/18 Rev 2018

**CAUTIONS**

Environment Testing Americas

**CAUTIONS**

Environment Testing Americas

Ver 11/01/2020



## Eurofine Yanco Carlehad

1089 N Canal St.  
Carlsbad NM 88220  
Phone 575.688.3100 Fax 575.688.3100

## Chain of Custody Record



## Environment Testing

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-529-1

SDG Number: TE012921030

Login Number: 529

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: 890-529-1

SDG Number: TE012921030

Login Number: 529

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/16/21 11:40 AM

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

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 27390

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 27390
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2104347351 REMUDA 500 CTB, thank you. This closure is approved.	8/18/2021