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

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.93682

32.27052 Latitude

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

Unit Letter	Section	Township	Range	County
0	25	238	29E	Eddy

Surface Owner: 🗷 State 🗌 Federal 🗌 Tribal 🗌 Private (*Name:* _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

▼ Crude Oil	Volume Released (bbls) 0.46	Volume Recovered (bbls) 0.21
▼ 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?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
C CD 1		

Cause of Release A circulation pump seal failed, causing fluids to overflow skid containment. A third-party contractor has been retained for remediation activities.

orm C-141 State of New Mexico			Page 2 of
orm C-141		Incident ID	nAPP2104347351
age 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible pa		
If YES, was immediate n	otice given to the OCD? By whom? To whom? W	hen and by what means (phone, e	mail, 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

 \mathbf{x} The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

x Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Kyle Littrell	Title:
Signature: <i>Confittutto</i> email: kyle.littrett@exxonmobil.com	Date: 2-12-21 Telephone: 432-221-7331
OCD Only	
Received by:	Date:

NA

Location:	Remuda 500 CTB	
Spill Date:	2/8/2021	
	Area 1	
Approximate A	rea = 1808.00) sq. ft.
Average Satura	tion (or depth) of spill = 1.50) inches
Average Porosi	ty Factor = 0.03	3
	VOLUME OF LEAK	
Total Crude Oil	= 0.46	bbls
Total Produced	Water = 8.75	5 bbls
TOTAL VOLUME OF LEAK		
Total Crude Oi	= 0.40	bbls
Total Produced	Water = 8.7	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oi	= 0.2	bbls
Total Produced	Water = 7.79	bbls

Received by OCD: 5/7/2021 2:13:46 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of 7
Incident ID	nAPP2104347351
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \square 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.

Received by OCD: 5/7/2021 Form C-141 Page 4	2:13:46 PM State of New Mexic Oil Conservation Divis		Incident ID District RP Facility ID Application ID	Page 5 of 77 nAPP2104347351
regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations.	mation given above is true and complete equired to report and/or file certain relea ent. The acceptance of a C-141 report b te and remediate contamination that pose a C-141 report does not relieve the oper-	se notifications and perfor y the OCD does not reliev e a threat to groundwater, s ator of responsibility for co	m corrective actions for re e the operator of liability s surface water, human healt	leases which may endanger hould their operations have h or the environment. In
Printed Name:	<u>_Kyle Littrell</u>	Title: <u>Environm</u>	ental Manager	
Signature:	<u>_Kyle Littrell</u>	Date:05/0	3/2021	
email: Kyle.Littre	<u>l@exxonmobil.com</u>	Telephone	: (432)-221-7331	
·	·	_ 1	, , ,	
OCD Only				
Received by:		Date:		_

Page 6

Oil Conservation Division

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 must be notified 2 days prior to liner inspection)	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 OD	C District office must be notified 2 days prior to final sampling)		
Description of remediation activities			
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in		
Printed Name: Kyle Littrell	Title: Environmental Manager		
Printed Name: <u>Kyle Littrell</u> Signature: <u>Kyle Littrell</u>	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:		

Received by OCD: 5/7, Form C-141 Page 4	2021 2:13:46 PM State of New M Oil Conservation I		Incident ID District RP Facility ID Application ID	Page 7 of 77 nAPP2104347351			
regulations all operator public health or the env failed to adequately inv addition, OCD acceptar and/or regulations.	information given above is true and com s are required to report and/or file certain rironment. The acceptance of a C-141 represtigate and remediate contamination that are of a C-141 report does not relieve the	release notifications and perform bort by the OCD does not relieve t t pose a threat to groundwater, sur operator of responsibility for com	corrective actions for rele he operator of liability sh face water, human health pliance with any other fe	eases which may endanger ould their operations have or the environment. In			
Printed Name:	<u>Kyle Littrell</u>	Title: <u>Environmen</u>	onmental Manager				
Signature:	_Kyle Littrell	Date:05/03/	2021				
	Littrell@exxonmobil.com		<u>(432)-221-7331</u>				
OCD Only							
Received by:		Date:		-			

Page 6

Oil Conservation Division

Incident ID	nAPP2104347351
District RP	
Facility ID	
Application ID	

Page 8 of 77

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.

<u>Closure Report Attachment Checklist</u>: Each of the following a	items must be included in the closure report.
\boxtimes A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title: Environmental Manager
Printed Name: Kyle Littrell Signature: Signature:	Date:05/03/2021
email:Kyle.Littrell@exxonmobil.com	Telephone:432-221-7331
OCD Only	0/10/2021
Received by: <u>Robert Hamlet</u>	Date: <u>8/18/2021</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date: 8/18/2021
Printed Name: <u>Robert Hamlet</u>	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



District II Page 2

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.



District II Page 3

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.

NSD

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.

Elizabeth Naka

Elizabeth Naka Assistant Consultant, Environmental Scientist

Ashley L. Ager

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

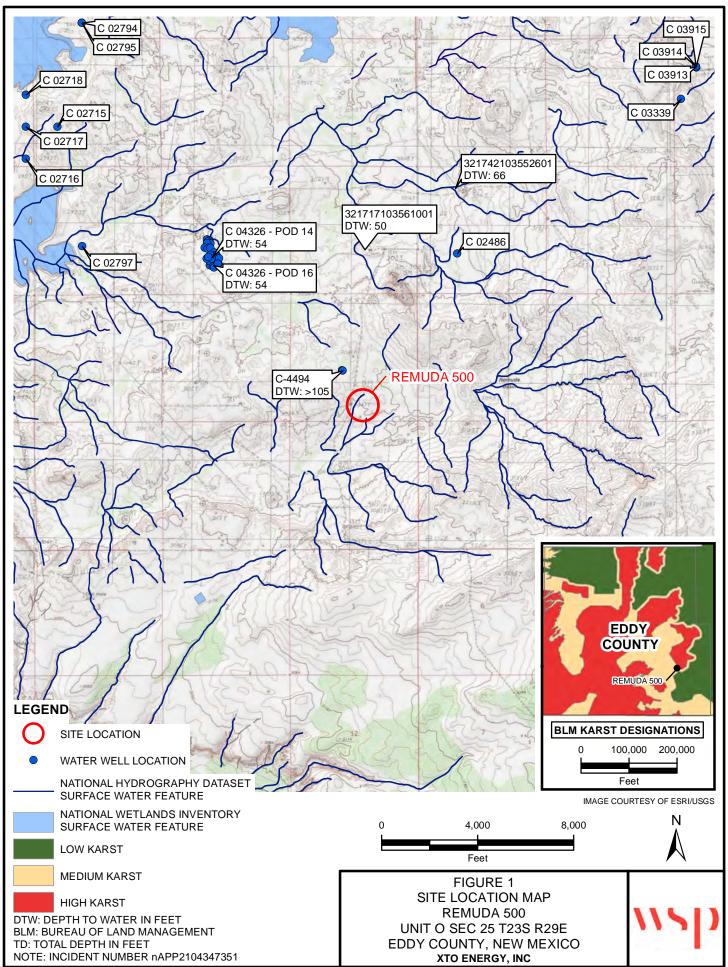
cc: Kyle Littrell, XTO Ryan Mann, New Mexico State Land Office

Attachments:

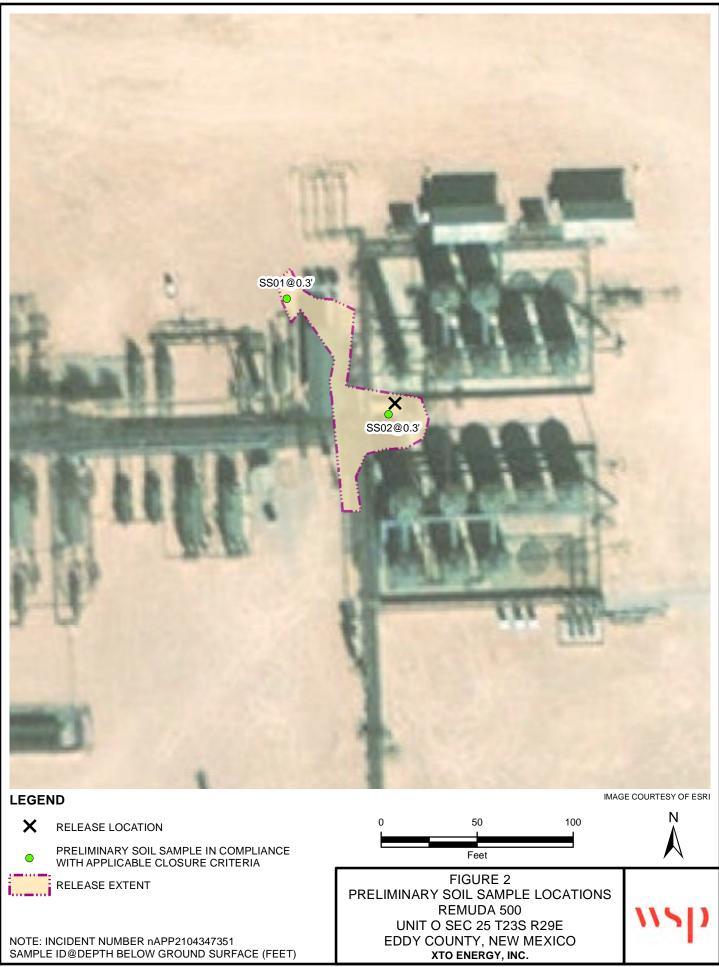
- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

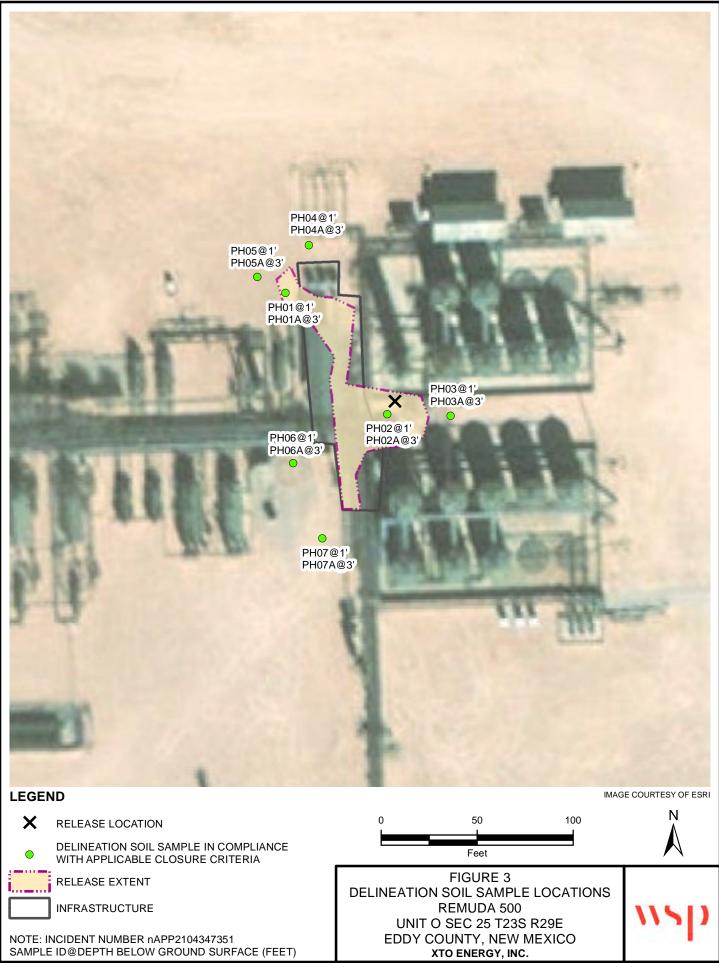
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Table 1

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 Cl	osure Criteria (NMA	AC 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

.

		_			MS	DUSA			BH or PH Name:	Date:	
					VV 5	PUSA			BH01 (C-4494)	11/18/2020, 12/02/20, 01/05/2021	
				5	08 West	Stevens S	Street		Site Name:	Remuda North 25 Observation We	ell
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Numbe		
									LTE Job Number:	TE012919039	
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic	:	
Lat/Lo	ng:				Field Scre	ening:			Hole Diameter:	Total Depth:	
	-								6.25", 4.25"	105'	
Comm		 - -	C . I .I .								
Lithoic	gy remarks	s only. No	field so	creenings: D	y noie			1			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	logy/Remarks	
D			Ν		L	1	SP-SC				
					_	-					,
					-	2				ly graded, fine grain, Clay (10% cla	ay),
					-	3		some roo	ots, no stain, no odor		
D			N		-	4	COLIE			t brown, poorly graded, very fine - t bebbles, no stain, no odor	fine
			IN		-	5	COULE	yraill, SO	me rounded caliche	טטטעפא, איז אנגעפאעפאעפאינאפא	
					-	6				wn-tan, poorly consolidated, sub- gravel, very silty, gradational	
					-	7					
					-	8		9-14' : A	oundent sub-round ca	aliche gravel	
						[14-19' : \$	Some sub-angular ca	liche gravel and pebbles	
						9		19-24' : /	Abundant sub-angula	r caliche gravel and pebbles,	
					-	10			ely consolidated	0 1 <i>i</i>	
					-						
					-	11					
					_	12					
					-	13					
					-	14					
					-	15					
						16					
						17					
					-	18					
						19					
						20					
						21					
					-	22					
					-	23					
					-	24					
D			Ν		-	25	CL				
						20					

											1
					WS	P USA			BH or PH Name:	Date:	
									BH01 (C-4494)	11/18/2020, 12/02/20, 01/05/2021	
				5	508 West S Isbad, Ne	Stevens S	secon			Remuda North 25 Observation We	
				Cai	ISDau, Ne		00220		RP or Incident Numbe		
									LTE Job Number:	TE012919039	
1		LITH	ULOC	SIC / SOIL				Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic		
Lat/Lo	ng:				Field Scre	ening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'	
Comm	ients:								0.20 , 4.20	100	
Litholo	ogy remark	s only. No	field s	creenings: D	ry hole			-			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	logy/Remarks	
D			Ν			26	CL				
					-	27		consolid		dish-brown, low plasticity, well caliche sub-angular pebbles, no ta	in,
					-	29			Sub-angular calcium ((1-3mm), tan-light bro	carbonate gravel with dissolution	
					-	30		At 39' : I	Begin air rotory (4.25")	1	
					-	31		39-42' :	DOLOMETIC LIMEST	ONE, tan-light brown, dry, well	
						_			ated, with dissolution ht to moderate reaction	features (1-3mm), sharp, no stain, n with HCl	no
					-	32		-		nite with trace dissolution features	
					_	33		(>1mm)			
					-	34			Stop due to air rotory r		
					-	35		DOLOM	ITE, white, well conso	h new air rotary bit (12/02/20), lidated, dark gray-black banding, r	10
					-	36		stain, n	o odor		
					-	37					
					-	38					
5			N		-	39					
D			Ν		-	40	DOL				
					-	41					
					-	42					
						43					
						44					
						45					
					-	46					
					-	47					
					-	48				Refusal on 11/18/20	
					-	49				Restart borehole on 12/02/2	0
					-	50					
						50					

									DH or DH Nama	Deter
					WS	P USA			BH or PH Name:	Date:
									BH01 (C-4494)	11/18/2020. 12/02/2020, 1/5/2021
				5	508 West S Isbad, Ne	Stevens S	Street			nuda North 25 Observation Well
				Cai	ISDau, Ne		00220		RP or Incident Number:	40000
					CAMPI		0		LTE Job Number: TE0129	
Lot/L		LIIR	JLUG	IC / SOII	Field Scre			Logged By BB, LAD, FS Hole Diameter:	Method: Hollow Stem Auger, sonic	
Lat/Lo	ong:				Field Scre	ening.			6.25", 4.25"	Total Depth: 105'
	nents:								, -	103
Lithol	ogic log on	ly, no field	d screer	nings			-	T		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithole	ogy/Remarks
						51	DOL	18-56' ·	Advanced borebole w	ith new air rotary bit (12/02/20),
					-	52				lidated, dark gray- banding, no sta
						53				
					-	54				
					-	55				
					_	56				1/5/2021 with sonic rig
						57		calcium	crystalline veins (<1m	gray-gray, well consolidated, some m), some dissolution features
					-	58			ssolution features, no	ine, trace orange oxidation stainin stain, no odor
						59 60		62' : Bro stringer		e crystalline dolomitic limestone
						61		63-65' : .		alline veins (<1mm), pale green-
					-	62			-	eddish brown, poorly consolidated
					-	63		high plas		dant coarse crystalline gypsum, fe
						64		69-81' :	GYPSUM with Anhydr	ite, dry, greenish gray, some pale crystalline, 20% anhydrite, no stair
D			N		-	65	CH-S	no odor		orystannis, 2076 annyunite, no Stall
						66	0.10			
					-	67				
					-	68				
D			Ν			69 70	GYP	1		
					-	70				
					-	72				
						73				
						74				
					-	75				

BH or PH Name:	Date:
WSP USA BH01 (C-4494)	11/18/2020. 12/02/2020, 1/5/2021
	Iorth 25 Observation Well
Carlsbad, New Mexico 88220 RP or Incident Number:	
LTE Job Number: TE012919039	
LITHOLOGIC / SOIL SAMPLING LOG 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 (ppm) (Remarks
76 GYP 69-81' : GYPSUM with Anhydrite, d yellow, well consolidated, finr crysta 77 no odor 78 81-98' : MUDSTONE, moist, dark r 79 consolidated, high plasticity, cohes	alline, 20% anhydrite, no stain, eddish brown, moderately ive, trace coarse crystalline
80 85-86.5' : greenish-gray well conso 81 81	lidated coarse crystalline
D N 81 CH-S 90-98': Some fine grain brown same fine grain brown	nger (4cm) /, some brown, dry, well e, no stain, no odor ist, brown, some gray-dark

									BH or PH Name:		Date:
					WSI	P USA			BH01 (C-4494)		11/18/2020. 12/02/2020, 1/5/2021
				5	508 West S	Stevens S	Street			Remuda N	North 25 Observation Well
				Car	508 West S Isbad, Nev	v Mexico	88220		RP or Incident Numbe		
								LTE Job Number: TE0)12919039		
		LITHO	OLOG	IC / SOII	SAMPL	ING LO		Logged By BB, LAD, F	S	Method: Hollow Stem Auger, sonic	
Lat/Lo	ong:				Field Scree	ening:			Hole Diameter:		Total Depth:
Comr	nents:								6.25", 4.25"		105'
Lithol	ogic log onl	y, no field	d screer	nings							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lit	:hology/F	Remarks
	-			0)		404	Э́	00 5 400			int hanne on a more deale
						101 102	ML-S				bist, brown, some gray-dark y fine grain sand, no stain, no
						103		At 102' :		nated bl	ack/gray well consolidated
						104		snale sti	inger (4cm thick)		
D			N			105		TD @ 10	05' bgs (1/5/2021)		
						106					
						107					
						108					
						109					
						110					
						111					
						112 113					
						114					
						115					
						116					
						117					
						118					
						119					
						120					
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						122					
					4	123 124					
						124					

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	119			5 Cari GIC / SOIL	08 West S Isbad, Ne			-	BH or PH Name: PH01 Site Name: RP or Incident Number: WSP Job Number: Logged By J. Hill	Date: 4/14/2021 Remuda 500 NAPP2104347351 TE012921030 Method: Mini Backhoe
Lat/Lo	ona:	LIIII	OLOC		Field Scre		0		Hole Diameter:	Total Depth:
					Hatch Chl		s, PID		10"	3'
Comm	nents: TD @ 3'									
Moisture Content		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholo	gy/Remarks
M	240 304 184	2.0 0.0 0.0	Y Z Z	PH01 PH01A	3.0		SWSC SC	Odor, No Clayey, fi No Odor, Fine-mec	I well graded sand with Plasticity. Organic Tr ne sand w/ gravel. Low Plasticity. No or I well graded sand with No Plasticity. Organi	ganic Traces. Red/Brown

								BH or PH Nar	ne:	Date:	
					WS	P USA		PH02		4/14/2021	
				5	08 West S sbad, Ne	Stevens S	Street	Site Name:		Remuda 500	
				Carl	sbad, Ne	w Mexico	88220	RP or Incident		NAPP2104347351	
								WSP Job Nur		TE012921030	
		LITH	OLOG	SIC / SOIL			G	Logged By J.		Method:	Mini Backhoe
Lat/Lo	ong:				Field Scre Hatch Chl	-		Hole Diameter 10"	r:	Total Depth: 3'	
Comm							, 1 ID			0	
	TD @ 3'					1					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/F	Remarks	
					-	0					
Μ	928	0.5	Ν	PH02	1.0	1	SWSC	ine-med well grade lo Odor, No Plastic			n
Μ	804	1.5	Ν		-	2	SWSC	ine-med well grade lo Odor, No Plastic	ed sand with cla ity. Organic Tra	ay and gravel. aces. Ligh Brow	n/ Pink
М	588	4.2	Ζ	PH02A	3.0		SWSC	ine-med well grade lo Odor, No Plastic	ed sand with cla	ay and gravel.	

			`		WS	P USA		BH or PH Name: Date: PH03 4/14/2021
				5	08 West S sbad, Ne	Stevens S	Street	Site Name: Remuda 500
				Cari	sbad, ive) 88220	RP or Incident Number: NAPP2104347351
				GIC / SOIL	SAMDI			WSP Job Number: TE012921030 Logged By J. Hill Method: Backhoe
Lat/Lo	na.	LIIN	OLUG		Field Scre		G	Logged By J. Hill Method: Backhoe Hole Diameter: Total Depth:
					Hatch Chl	-	s, PID	20" 3'
Comm	ents: TD @ 3'							Γ
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
D	212	0.0	Ν		-	0.5	SWSM	Fine-med well graded sand with silt and gravel No Odor, No Plasticity. Organic Traces. Tan/Pink
D	156	0.0	Ν	PH03	1.0	1	SWSC	Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Red/Light Brown
					-	-		
D	156	0.0	Ν		-	2	SWSC	Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Red/Brown
					-	-		
D	164	0.0	Ν	PH03A	3.0	3	GWGC	Well Graded gravel with Clay and Sand No Odor, No Plasticity. Organic Traces. Red/ Brown
					-	-		
					-	-		
					-	-		
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								D	H or PH Name:	Date:	
					WS	P USA					
									H04	4/14/2021	
				5	08 West S Isbad, Ne	Stevens S	Street		te Name:	Remuda 500	
				Can	isbau, ive		00220		P or Incident Number:	NAPP21043473	
									SP Job Number:	TE01292103	
LITHOLOGIC / SOIL SAMPLING LOG									ogged By J. Hill	Method:	Backhoe
Lat/Long: Field Screening: Hatch Chloride Strips, PID								H 20	ole Diameter:	Total Depth: 3'	
Comm	ents:				riatori oni		5, T ID		·	0	
	TD @ 3'		1								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Lith	ology/Remarks	
					1	0					
D	BDL	0.0	Ν		-	0.5	SWSC			with clay and gravel.	
				D U 0 4	4.0	- 4	0.440.0	No Odor, N	No Plasticity. Orga	anic Traces. Brown/T	an
D	BDL	0.0	Ν	PH04	1.0	1	SWSC			with clay and gravel. anic Traces. Brown/T	an
					-	-			to i laotiony. Orga	and Habbo Drown/T	WIT
					-	-					
М	BDL	0.0	Ν		_	2	SC	Clayey sar	nd with Gravel		
					-	-		No Odor, L	Low Plasticity. Org	ganic Traces. Red/Br	own
					_	_					
D	BDL	0.0	Ν	PH04A	3.0	3	GWGC	Well Grad	ed gravel with Cla	y and Sand	
						_		No Odor, N	No Plasticity. Orga	anic Traces. Red/ Bro	own
					_	-					
					-	-					
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WSP USAPH054/14/2021508 West Stevens Street Carlsbad, New Mexico 88220Site Name: RP or Incident Number:Remuda 500 NAPP2104347351 WSP Job Number:WSP Job Number:TE012921030									
Sold West Stevens, Street Carlsbad, New Mexico 88220 Site Name: Remuda 500 RP or Incident Number: NAPP2104347351 WSP Job Number: TE012921030 Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20" Total Depth: 3' Comments: TD @ 3' entry of diagonal 0 Site Name: Total Depth: 20" 0 0 Site Name: Lithology/Remarks 0 0 Site Name: Lithology/Remarks 0 0 Site Name: Comments: 20" 0 0 Site Name: Comments: 20" Comments: 20" 0 0 Sample Depth Depth Comments: 20" Comments: 20" 0 0 Sample Sa						WS	PUSA		BH or PH Name: Date:
WSP Job Number: TE012921030 LITHOLOGIC / SOIL SAMPLING LOG Logged By J. Hill Method: Backho Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20° Total Depth: 3° Comments: TO @ 3° O @ 10 P Sample B Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Lithology/Remarks D 112 0.1 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand									
WSP Job Number: TE012921030 LITHOLOGIC / SOIL SAMPLING LOG Logged By J. Hill Method: Backho Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20° Total Depth: 3° Comments: TO @ 3° O Sample Depth (ft bgs) Depth (ft bgs) Lithology/Remarks D 112 0.1 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand					5	08 West S	Stevens S	Street	
LITHOLOGIC / SOIL SAMPLING LOG Logged By J. Hill Method: Backho Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20" Total Depth: 3" Comments: TD @ 3" Total Depth: 3" annie of depth (ft bgs) annie of depth (ft bgs) both depth (ft bgs) bot					Can	isuau, ive	wiviexicc	00220	
Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20* Total Depth: 3* Comments: TD @ 3* TD @ 3* Sample Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth Depth (ft bgs) Depth Depth (ft bgs) Lithology/Remarks D 112 0.1 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05 3.0 3 GWGC Well Graded gravel with Clay and Sand									
Hatch Chloride Strips, PID 20" 3" Comments: TD @ 3' TD @ 3' Image: Degree of the strips of the s			LITH	OLOG	SIC / SOIL				
Comments: TD @ 3' TD @ 3' an tit spore To (fig) To (fig) <thto (fig)<="" tht=""> <thto (fig)<="" th=""> To (fig)</thto></thto>									
TD @ 3' an traperov b (fight of c) b (figh of c) b (fight of c)	Comn	nents:				Hatch Chi		13, FID	5
D 112 0.1 N D 224 0.0 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand									
D 112 0.1 N D 224 0.0 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D 224 0.0 N PH05 1.0 1 SWSC No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N 2 SC Clayey sand with Gravel No Odor, Low Plasticity. 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand		l				1	0		
D 224 0.0 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand	D	112	0.1	Ν		-	0.5	SWSC	
M 136 0.0 N 2 SC No Odor, No Plasticity. Organic Traces. Brown/Tan D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand	_						.		No Odor, No Plasticity. Organic Traces. Brown/Tan
M 136 0.0 N 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand	D	224	0.0	Ν	PH05	1.0	_ 1	SWSC	
D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand						-	ŀ		
D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand						-	ŀ		
D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand	Μ	136	0.0	Ν		_	2	SC	Clayey sand with Gravel
D 112 0.0 N PH05A 3.0 3.0 GWGC Well Graded gravel with Clay and Sand No Odor, No Plasticity. Organic Traces. Red/ Brown						-	ŀ		No Odor, Low Plasticity. Organic Traces. Red/Brown
D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand No Odor, No Plasticity. Organic Traces. Red/ Brown						-	-		
No Odor, No Plasticity. Organic Traces. Red/ Brown	D	112	0.0	Ν	PH05A	3.0	3	GWGC	Well Graded gravel with Clay and Sand
			0.0		11100/1	0.0		000	No Odor, No Plasticity. Organic Traces. Red/ Brown
							_		
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								BH or PH Name:	Date:	
					WS	P USA		PH06	4/14/202	21
				5	08 West S	Stevens S	Street	Site Name:	Remuc	da 500
				Carl	sbad, Ne	w Mexico	88220	RP or Incident N		04347351
								WSP Job Numbe	r: TE012	921030
		LITH	OLOG	SIC / SOIL			G	Logged By J. Hill Hole Diameter:	Method:	
Lat/Lo	Lat/Long: Field Screening: Hatch Chloride Strips, PID								Total De 3'	pth:
Comm	ents:				natch Chi	onde Strip	is, Pid	20"	5	
	TD @ 3'									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)			Lithology/Remarks	3
						0				
D	504	0.0	Ν		-	0.5	SWSM	ne-med well graded	sand with silt and ora	avel.
						_		o Odor, No Plasticity	Organic Traces. Ta	an/pink
D	296	0.0	Ν	PH06	1.0	1	SWSM	ne-med well graded		
					-	-		o Odor, No Plasticity	Organic Traces. La	ап/ріпк
						-				
D	266	0.0	Ν			2	SWSC	ne-med well graded	sand with clay and g	ravel.
					-	Ļ		o Odor, No Plasticity	Organic Traces. Br	OWN/PINK
					_					
D	372	0.0	Ν	PH06A	3.0	3	SC	layey sand with grave		
					-	-		o Odor, Low Plasticit	. Organic Traces. F	Red
					_	_				
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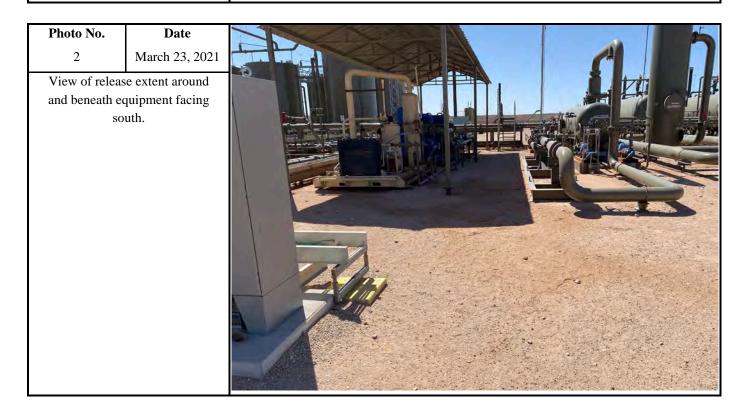
									DLL er DLL Nemer	Deter
					WS	P USA			BH or PH Name:	Date:
									PH07	4/14/2021
				5 Carl	08 West S Isbad, Ne	Stevens Stevens	Street		Site Name:	Remuda 500
				Can	isbau, Ne		00220		RP or Incident Number:	NAPP2104347351
					0.11101		-		WSP Job Number:	TE012921030
1 (1		LITH	OLOG	SIC / SOIL			G		Logged By J. Hill	Method: Backhoe
Lat/Lo	ng:				Field Scre Hatch Chl				Hole Diameter: 20"	Total Depth: 3'
Comm	nents:				riatori oni	onde onip	, , T ID			0
	TD @ 3'			-				-		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litholo	gy/Remarks
					1	0				
D	1,652	0.0	Ν		-	0.5	SWSM	Fine-me	d well graded sand with	h silt and gravel.
	1,002	5.0	1.4			0.0	0,100,0101	No Odo	, No Plasticity. Organi	c Traces. Tan/pink
D	660	0.0	Ν	PH07	1.0	1	SWSM	Fine-me	d well graded sand with	h silt and gravel.
					-	ŀ		No Odo	, No Plasticity. Organic	c Traces. Tan/pink
					-	F				
D	772	0.0	Ν		-	2	SWSM	Fine-me	d well graded sand with	h silt and gravel.
					-			No Odo	, No Plasticity. Organi	c Traces. Light Brown/Orange
					_	L			· •	
				D 110 - 1		-		F		
D	164	0.0	Ν	PH07A	3.0	3	SP	Fine, po	orly graded sand with g	pravel nic Traces. Orange/Tan
					-	-			, LOW Flasticity. Organ	lic fraces. Orange/ran
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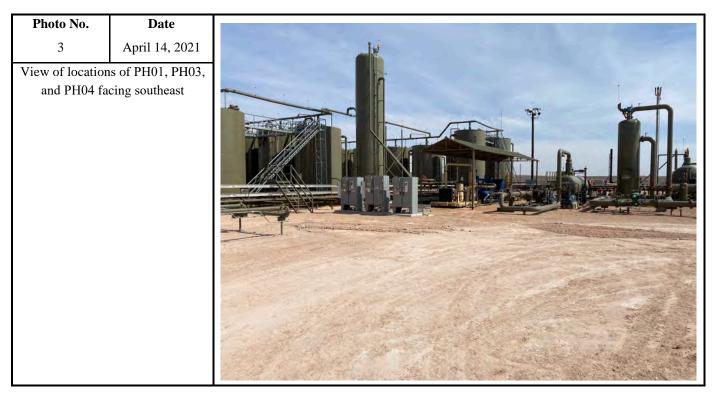
	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Remuda 500	nAPP2104347351
	Eddy County, New Mexico	

Photo No.	Date	
1	March 23, 2021	
View of rel	ease between	
tank batterie	es and process	
equipment	facing west.	





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Remuda 500	nAPP2104347351
	Eddy County, New Mexico	







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

AMER

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 <u>www.EurofinsUS.com</u>



Client Sample Result Summary

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

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: Analvzed:	04/02/2021 09:30 04/02/2021 18:31		04/02/2021 09:30 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	4:29	04/01/2021 14	4:29
	Analyzed:	04/02/2021 23	3:40	04/03/2021 00	0:01
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organio (GRO)-C6-C10	cs	184	49.8	94.7	50.0
Diesel Range Organics C10-C28)	375	49.8	282	50.0	
Oll Range Organics (Ov C28-C36)	er	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

Job ID: 890-410-1 SDG: TE012921030

.

Received by OCD: 5/7/2021 2:13:46 PM

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

🔅 eurofins

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

RAMER

Authorized for release by: 4/22/2021 4:15:33 PM

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

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

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

Total Access Have a Question? Ask The Expert Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
	5
Surrogate Summary	15
QC Sample Results	17
QC Association Summary	22
Lab Chronicle	26
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	37

2

Page 41 of 77

	Definitions/Glossary		
Client: WSP US Project/Site: Re		Job ID: 890-529-1 SDG: TE012921030	2
Qualifiers			3
GC VOA			ು
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
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.		8
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		9
<u></u>	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		12
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 MCL	Limit of Quantitation (DoD/DOE) 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		

TNTC Too Numerous To Count

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.

Page 43 of 77

Job ID: 890-529-1 SDG: TE012921030

Client Sample ID: PH01

Project/Site: Remuda 500

Date Collected: 04/14/21 10:06 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

_

Client: WSP USA Inc.

Lab Sample ID	: 890-529-1
	Matrix: Calid

Matrix: Solid

5

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 Fa
4-Bromofluorobenzene (Surr)	109		70 - 130			04/16/21 12:15	04/16/21 23:02	
1,4-Difluorobenzene (Surr)	107		70 - 130			04/16/21 12:15	04/16/21 23:02	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (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	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 13:59	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 13:59	
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 13:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			04/16/21 16:52	04/19/21 13:59	
p-Terphenyl	125		70 - 130			04/16/21 16:52	04/19/21 13:59	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		5.00	mg/Kg			04/19/21 20:04	1
lient Sample ID: PH01A						Lab Sa	mple ID: 890	-529-2
ate Collected: 04/14/21 10:40							Matri	x: Solid
ate Received: 04/15/21 12:22								
ample Depth: - 3.0								
Method: 8021B - Volatile Organic	Compounds	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		04/16/21 12:15	04/16/21 23:23	
Toluene	<0.00198	U	0.00198	mg/Kg		04/16/21 12:15	04/16/21 23:23	

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

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Matrix: Solid

5

Lab Sample ID: 890-529-2

Lab Sample ID: 890-529-3

04/16/21 12:15 04/17/21 01:12

Matrix: Solid

1

Client Sample ID: PH01A

Date Collected: 04/14/21 10:40 Date Received: 04/15/21 12:22

Sample Depth: - 3.0

Client: WSP USA Inc.

Project/Site: Remuda 500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 15:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 15:06	1
C10-C28)								
Oll 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

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

Client Sample ID: PH02

Date Collected: 04/14/21 10:59 Date Received: 04/15/21 12:22 Sample Depth: - 1.0

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Orga	nic 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

70 - 130

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 20:14	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 20:14	1
C10-C28)								
Oll 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			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 Chro	omatography -	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

RL

Unit

D

Prepared

Result Qualifier

Page 45 of 77

Job ID: 890-529-1 SDG: TE012921030

Client Sample ID: PH02A

Date Collected: 04/14/21 11:13

Sample Depth: - 3.0

Analyte

o-Xylene

Client: WSP USA Inc.

Project/Site: Remuda 500

Lab	Sample	ID:	890-529-

Analyzed

Matrix: Solid

-4 5 Dil Fac

Date Received: 04/15/21 12:22

Method: 8021B - Volatile Organic Compounds (GC)

	Result			Unit				
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	e Organics (D	RO) (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
Oll 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
		Solublo						
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Method: 300.0 - Anions, Ion Chron Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u> </u>	Prepared	Analyzed 04/20/21 15:32	Dil Fac
Analyte Chloride	Result				<u>D</u>	· · ·		5
Analyte Chloride Client Sample ID: PH03	Result				<u> </u>	· · ·	04/20/21 15:32	5
Analyte Chloride Client Sample ID: PH03 Pate Collected: 04/14/21 12:50	Result				<u>D</u>	· · ·	04/20/21 15:32	5 - 529-5
Analyte Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22	Result				<u> </u>	· · ·	04/20/21 15:32	5- 529-5
Analyte Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 Sample Depth: - 1.0	Result 903	Qualifier			<u>D</u>	· · ·	04/20/21 15:32	5- 529-5
Analyte Chloride Client Sample ID: PH03 ate Collected: 04/14/21 12:50 ate Received: 04/15/21 12:22 ample Depth: - 1.0 Method: 8021B - Volatile Organic	Result 903	Qualifier			<u>D</u>	· · ·	04/20/21 15:32	5 5- 529-5 x: Solid
Analyte Chloride Client Sample ID: PH03 vate Collected: 04/14/21 12:50 vate Received: 04/15/21 12:22 sample Depth: - 1.0	Result 903	Qualifier GC) Qualifier	24.8	mg/Kg		Lab Sa	04/20/21 15:32	5 - 529-5 x: Solid Dil Fac
Analyte Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 Gample Depth: - 1.0 Method: 8021B - Volatile Organic Analyte	Result 903 Compounds (Result	Qualifier GC) Qualifier U	24.8	mg/Kg		Lab Sa	04/20/21 15:32	⁵ - 529-5
Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 Sample Depth: - 1.0 Method: 8021B - Volatile Organic Analyte Benzene	Compounds (Result <0.00199	Qualifier GC) Qualifier U U	24.8	Unit mg/Kg		Lab Sa Prepared 04/16/21 12:15	04/20/21 15:32 mple ID: 890 Matri: <u>Analyzed</u> 04/17/21 01:53	5 -529-5 x: Solid <u>Dil Fac</u> 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
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 120	Qualifier	Limits 70 - 130		Prepared 04/16/21 12:15	Analyzed 04/17/21 01:53	Dil Fac

0.00199

mg/Kg

04/16/21 12:15

<0.00199 U

04/17/21 01:53

Client Sample Results

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-6

04/17/21 02:14

04/16/21 12:15

Matrix: Solid

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

Client Sample ID: PH03

Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

Client: WSP USA Inc.

Project/Site: Remuda 500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:13	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 16:13	1
C10-C28)								
Oll 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
I-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

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

Date Collected: 04/14/21 13:36 Date Received: 04/15/21 12:22 Sample Depth: - 3.0

Method: 8021B - Volatile Orga	nic 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

70 - 130

1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed <50.0 U 50.0 04/16/21 16:52 04/19/21 16:35 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <50.0 U 50.0 04/16/21 16:52 04/19/21 16:35 **Diesel Range Organics (Over** mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/16/21 16:52 04/19/21 16:35 Total TPH 04/16/21 16:52 04/19/21 16:35 <50.0 U 50.0 mg/Kg %Recovery Qualifier Limits Prepared Analyzed Surrogate 04/16/21 16:52 1-Chlorooctane 70 - 130 04/19/21 16:35 110 o-Terphenyl 113 70 - 130 04/16/21 16:52 04/19/21 16:35

99

Method: 300.0 - Anions, Ion Chrom	atography -	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

Lab Sample ID: 890-529-5

Lab Sample ID: 890-529-7

Matrix: Solid

5

Client Sample ID: PH04 Date Collected: 04/14/21 13:52

Project/Site: Remuda 500

Client: WSP USA Inc.

Date Received: 04/15/21 12:22 Sample Depth: - 1.0

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)			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 Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0	mg/Kg		04/16/21 16:52	04/19/21 16:58	1

					0 4 4 4 0 4 0 4 0 5 0			
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg	04/16/21 16:52	04/19/21 16:58	1	
Oll Range Organics (Over C28-C36)	<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	
(GRO)-C6-C10								
Gasoline Kange Organics	~30.0	0	50.0	ing/itg	0-110/2110.32	0-113/21 10.30	1	

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
	atography - Soluble				

Method: 300.0 - Anions, ion Chron	latography -	Soluple						
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 Date Collected: 04/14/21 14:05

Lab Sample ID: 890-529-8 Matrix: Solid

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

Date Received: 04/15/21 12:22 Sample Depth: - 3.0

Job ID: 890-529-1

Matrix: Solid

5

SDG: TE012921030

Lab Sample ID: 890-529-8

Lab Sample ID: 890-529-9

04/16/21 12:15 04/17/21 03:15

Matrix: Solid

1

Client Sample Results

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

Client Sample ID: PH04A

Date Collected: 04/14/21 14:05

Date Received: 04/15/21 12:22 Sample Depth: - 3.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:20	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:20	1
C10-C28)								
Oll 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 Chrom	hatography - S	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

Date Collected: 04/14/21 14:11 Date Received: 04/15/21 12:22 Sample Depth: - 1.0

1,4-Difluorobenzene (Surr)

	nic 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)			70 - 130			04/16/21 12:15	04/17/21 03:15	1

70 - 130

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 17:42	1
C10-C28)								
Oll 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			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 Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			25.2	mg/Kg			04/20/21 16:08	5

Lab Sample ID: 890-529-10

Matrix: Solid

5

Client Sample ID: PH05A Date Collected: 04/14/21 14:18 Date Received: 04/15/21 12:22

Sample Depth: - 3.0

Client: WSP USA Inc.

Project/Site: Remuda 500

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 Rang	ge Organics (D	RO) (GC)						
					D	Durananad	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	Unit	U	Prepared	Analyzeu	Dirrac
· · ·	Result <50.0		RL	Unit mg/Kg		04/16/21 16:52	04/19/21 18:03	1
Gasoline Range Organics								1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U						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

50.0

mg/Kg

Method: 300.0 - Anions, Ion Chromatography - Soluble

<50.0 U

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

Sample Depth: - 1.0

Total TPH

Lab Sample ID: 890-529-11 Matrix: Solid

04/19/21 18:03

04/16/21 16:52

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

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4/22/2021
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Date Collected: 04/14/21 14:50 Date Received: 04/15/21 12:22

Matrix: Solid

5

13

Lab Sample ID: 890-529-11

Lab Sample ID: 890-529-12

04/16/21 12:15 04/17/21 04:16

Matrix: Solid

1

Client Sample ID: PH06

Date Collected: 04/14/21 14:50 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

Client: WSP USA Inc.

Project/Site: Remuda 500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 18:46	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/16/21 16:52	04/19/21 18:46	1
C10-C28)								
Oll 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

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

Date Collected: 04/14/21 14:59 Date Received: 04/15/21 12:22 Sample Depth: - 3.0

1,4-Difluorobenzene (Surr)

– Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte		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)			70 - 130			04/16/21 12:15	04/17/21 04:16	1

70 - 130

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 19:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		04/16/21 16:52	04/19/21 19:08	1
C10-C28)								
Oll 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			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 Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	389		24.8	mg/Kg			04/22/21 11:20	5

Matrix: Solid

5

Lab Sample ID: 890-529-13

Client Sample ID: PH07 Date Collected: 04/14/21 15:13 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

Client: WSP USA Inc.

Project/Site: Remuda 500

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	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 19:30	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/16/21 16:52	04/19/21 19:30	1	
C10-C28)									
Oll 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 Date Collected: 04/14/21 15:21

Date Received: 04/15/21 12:22

Lab Sample ID: 890-529-14

Matrix: Solid

Sample Depth: - 3.0

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

Client Sample Results

Job ID: 890-529-1 SDG: TE012921030

Client Sample ID: PH07A

Date Collected: 04/14/21 15:21 Date Received: 04/15/21 12:22

Sample Depth: - 3.0

Client: WSP USA Inc.

Project/Site: Remuda 500

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
Oll 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 Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00	mg/Kg			04/22/21 11:35	

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Lab Sample ID: 890-529-14 Matrix: Solid

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

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(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	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Pe	ł
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(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+	+	

Prep Type: Total/NA

Prep Type: Total/NA

Page 53 of 77

Surrogate Summary

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

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl Job ID: 890-529-1 SDG: TE012921030

	ć)		
(5)	
				3

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

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid									Prep T	vpe: To	otal/NA
Analysis Batch: 1905										p Batcl	
Analysis Baton. 1000	N	IB MB								, Dato	
Analyte		ult Qualifier	RI	-	Unit		D F	repared	Analyz	ed	Dil Fac
Benzene	< 0.002	00 U	0.00200)	mg/K	(g	04/2	16/21 12:15	04/16/21 1		
Toluene	<0.002	00 U	0.00200)	mg/K		04/*	16/21 12:15	04/16/21 1	19:50	
Ethylbenzene	<0.002	00 U	0.00200)	mg/K	-	04/*	16/21 12:15	04/16/21 1	19:50	
m-Xylene & p-Xylene	<0.004	00 U	0.00400)	mg/K		04/*	6/21 12:15	04/16/21 1	9:50	
o-Xylene	<0.002	00 U	0.00200)	mg/K		04/*	16/21 12:15	04/16/21 1	19:50	
Xylenes, Total	<0.004	00 U	0.00400)	mg/K		04/*	16/21 12:15	04/16/21 1	19:50	
Total BTEX	<0.004		0.00400)	mg/K			6/21 12:15	04/16/21 1		
					U	0					
		IB MB									
Surrogate	%Recove	-	Limits	_				Prepared	Analyz		Dil Fac
4-Bromofluorobenzene (Surr)		99	70 - 130					16/21 12:15	04/16/21		
1,4-Difluorobenzene (Surr)	1	03	70 - 130				04/	16/21 12:15	04/16/21	19:50	1
Lab Sample ID: LCS 880-18	95/1-A						Clien	t Sample	ID: Lab Co	ontrol §	Sample
Matrix: Solid								- oumpro	Prep T		
Analysis Batch: 1905										p Batcl	
			Spike	LCS	LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%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		101	70 <u>-</u> 130		
			0.100	0.1010		ing/itg		102	10 - 100		
	LCS L	CS									
Surrogate	%Recovery Q	ualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								
- Lab Sample ID: LCSD 880-1	895/2-4					CI	ient San	nnle ID [.] I	ab Contro	l Samr	ole Dur
Matrix: Solid									Prep T		
Analysis Batch: 1905										p Batcl	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
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	
o-Xylene			0.100	0.09473		mg/Kg		95	70 - 130	7	
						5 5					
	LCSD L										
Surrogate	%Recovery Q	ualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								
Lab Sample ID: MB 880-190	1/5-0							Client S	ample ID: I	Methor	Riant
Matrix: Solid								Short O	Prep T		
										p Batcl	
Analysis Batch: 1966									rie	וטומם ע	1. 130

Analysis Batch: 1966							Prep Bate	ch: 1901
	MB	МВ						
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 13:34	1

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7

Job ID: 890-529-1

SDG: TE012921030

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

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

QC Sample Results

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

					Client Sa	mple ID: Metho Prep Type: 1 Prep Bato	otal/NA
MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
<0.00400	U	0.00400	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
<0.00400	U	0.00400	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
<0.00400	U	0.00400	mg/Kg		04/16/21 15:25	04/19/21 13:34	1
МВ	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
109		70 - 130			04/16/21 15:25	04/19/21 13:34	1
89		70 - 130			04/16/21 15:25	04/19/21 13:34	1
	Result <0.00200		Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	MB MB Result Qualifier RL Unit D Prepared <0.00200	MB MB Result Qualifier RL Unit D Prepared Analyzed <0.00200

Matrix: Solid Analysis Batch: 1966

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%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	

	LCS	LCS	
Surrogate	%Recovery	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

Analysis Batch: 1966								p Batch	: 1901
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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
LC	SD LCSD								

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

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SDG: TE012921030

Prep Batch: 1901

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

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

QC Sample Results

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

Lab Sample ID: MB 880-1907/1	-A									Client Sa	ample ID: N	lethod	Blank
Matrix: Solid											Prep Ty		
Analysis Batch: 1967													n: 1907
		ΜВ	МВ										
Analyte	Re	esult	Qualifier	RL		U	nit	D	F	repared	Analyze	d	Dil Fac
Gasoline Range Organics	<	\$0.0	U	50.0		m	g/Kg		04/1	6/21 16:52	04/19/21 1	2:53	1
(GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)	<	50.0	U	50.0		m	g/Kg		04/1	16/21 16:52	04/19/21 1	2:53	1
Oll Range Organics (Over C28-C36)	<	\$0.0	U	50.0		m	g/Kg		04/1	6/21 16:52	04/19/21 1	2:53	1
Total TPH	<	50.0	U	50.0		m	g/Kg		04/1	6/21 16:52	04/19/21 1	2:53	1
During weeks	64 D = = =	MB		1							A		D# 5
Surrogate	%Reco	117	Qualifier	Limits 70 - 130						Prepared 16/21 16:52	Analyze		Dil Fac
1-Chlorooctane o-Terphenyl			S1+	70 - 130 70 - 130						16/21 16:52	04/19/21 1		1
		159	37+	70 - 150					04/	10/21 10.52	04/13/211	2.00	'
Lab Sample ID: LCS 880-1907/	2-A							C	Clien	t Sample	ID: Lab Co	ntrol S	ample
Matrix: Solid											Prep Ty	ype: To	otal/NA
Analysis Batch: 1967											Prep	Batch	n: 1907
				Spike	LCS	LCS					%Rec.		
Analyte				Added	Result	Qualifie	er Uni	t	D	%Rec	Limits		
Gasoline Range Organics				1000	960.7		mg/	′Kg		96	70 - 130		
(GRO)-C6-C10				1000	10.10					405	70 100		
Diesel Range Organics (Over C10-C28)				1000	1046		mg/	кg		105	70 - 130		
(10-628)													
	LCS												
Surrogate	%Recovery	Qua	lifier	Limits									
1-Chlorooctane	108			70 - 130									
o-Terphenyl	125			70 - 130									
Lab Sample ID: LCSD 880-190	7/3-4							Clien	t San	nnle ID [.] I	ab Control	Samn	le Dun
Matrix: Solid								Unen	t Oun		Prep Ty		
Analysis Batch: 1967													n: 1907
Analysis Baton. 1001				Spike	LCSD	LCSD					%Rec.	, Datoi	RPD
Analyte				Added		Qualifie	ər Uni	t	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000	1157		mg/	′Kg		116	70 - 130	19	20
(GRO)-C6-C10								•					
Diesel Range Organics (Over				1000	948.8		mg/	′Kg		95	70 - 130	10	20
C10-C28)													
	LCSD	LCS	D										
Surrogate	%Recovery	Qua	lifier	Limits									
1-Chlorooctane	119			70 - 130									
o-Terphenyl	105			70 - 130									
Lab Sample ID: 890-529-1 MS											Client Sam	-	
Matrix: Solid											Prep Ty		
Analysis Batch: 1967	. .	-	_									Batch	n: 1907
	Sample		-	Spike		MS			_	~ -	%Rec.		
Analyte	Result		lifier	Added		Qualifie			_ D	%Rec	Limits		
Gasoline Range Organics	<49.9	U		998	1230		mg/	кg		123	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U		998	1067		mg/	'Kα		107	70 - 130		
C10-C28)	.0.0	5			1007		iiig/	9		.07	100		
· · · · · · · · · · · · · · · · · · ·													

Page 57 of 77

Job ID: 890-529-1 SDG: TE012921030 Client: WSP USA Inc.

Project/Site: Remuda 500

QC Sample Results

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											Client Samp Prep Typ	e: To	tal/NA
Analysis Batch: 1967											Prep	Batch	:: 190
	MS	мs											
Surrogate	%Recovery	Qua	lifier	Limits									
1-Chlorooctane	124	Quu		70 - 130	-								
o-Terphenyl	109			70 - 130 70 - 130									
o-respirency	103			70 - 750									
Lab Sample ID: 890-529-1 MSD											Client Samp	le ID:	: PHO
Matrix: Solid											Prep Ty		
Analysis Batch: 1967											Prep		
	Sample	Sam	ple	Spike	MSI) MS	D				%Rec.		RP
Analyte	Result			Added		t Qua		Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<49.9			998	115			mg/Kg		116	70 - 130	6	2
(GRO)-C6-C10		0		000	110	,		mg/itg		110	70 - 100	Ū	-
Diesel Range Organics (Over	<49.9	U		998	982.	3		mg/Kg		98	70 - 130	8	2
C10-C28)													
	MSD	MOD											
Surrogate	%Recovery	Qua	litier	Limits	-								
1-Chlorooctane	118			70 - 130									
o-Terphenyl	98			70 - 130									
Analysis Batch: 2014													
	_		MB						_				
Analyte			Qualifier				Unit		D	Prepared	Analyzed		Dil Fa
Chloride	<	\$.00	U		5.00		mg/K	g			04/19/21 17:	32	
Lab Sample ID: LCS 880-1942/2-	٨												
Matrix: Solid	^								Clion	t Samnl	o ID· I ah Con	trol S	amnl
									Clien	t Sampl	e ID: Lab Con Brop Ty		
									Clien	t Sampl	e ID: Lab Con Prep Ty		
				Spiko			-		Clien	it Sampl	Prep Ty		
Analysis Batch: 2014				Spike		6 LCS		llait		-	Prep Ty %Rec.		
Analysis Batch: 2014				Added	Resu	t Qua		Unit	Clien D	%Rec	Prep Ty %Rec. Limits		
Analysis Batch: 2014 Analyte						t Qua		Unit mg/Kg		-	Prep Ty %Rec.		
Analysis Batch: 2014 Analyte Chloride	3-4			Added	Resu	t Qua		mg/Kg	D	%Rec	Prep Ty %Rec. Limits 90 - 110	pe: S	olubl
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3	 3-A			Added	Resu	t Qua		mg/Kg	D	%Rec	Prep Ty %Rec. Limits 90 - 110	pe: S	le Du
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid	 3-A			Added	Resu	t Qua		mg/Kg	D	%Rec	Prep Ty %Rec. Limits 90 - 110	pe: S	le Du
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3	3- A			Added 250	Resul	t Qua	alifier	mg/Kg	D	%Rec	Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty	pe: S	le Du
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014	3- A			Added 250 Spike	Resul	$\frac{\mathbf{t}}{3} = \frac{\mathbf{Qua}}{\mathbf{t}}$	alifier SD	mg/Kg Cli	D_	%Rec 102 mple ID:	Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec.	pe: S Sampl pe: S	le Du olubi
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte	3-A			Added 250 Spike Added	Resul 254. LCSI Resul	$\frac{t}{3} = \frac{Qua}{LCs}$	alifier SD	mg/Kg Cli Unit	D	%Rec 102 mple ID: %Rec	Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. Limits	pe: S Sampl pe: S	le Du olubi olubi RP Lim
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte	3-A			Added 250 Spike	Resul	$\frac{t}{3} = \frac{Qua}{LCs}$	alifier SD	mg/Kg Cli	D_	%Rec 102 mple ID:	Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec.	pe: S Sampl pe: S	le Du olubi olubi RP Lim
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte Chloride				Added 250 Spike Added	Resul 254. LCSI Resul	$\frac{t}{3} = \frac{Qua}{LCs}$	alifier SD	mg/Kg Cli Unit	D_	%Rec 102 mple ID: %Rec 103	Prep Ty %Rec. 	pe: S Sampl pe: S RPD 1	le Du olubi olubi RP Lim 2
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte Chloride Lab Sample ID: MB 880-1943/1-A				Added 250 Spike Added	Resul 254. LCSI Resul	$\frac{t}{3} = \frac{Qua}{LCs}$	alifier SD	mg/Kg Cli Unit	D_	%Rec 102 mple ID: %Rec 103	Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. Limits 90 - 110 Sample ID: Me	pe: S Sampl pe: S RPD 1	le Du Jolubi RP Lim 2 Blan
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Chloride Lab Sample ID: MB 880-1943/1-A Matrix: Solid				Added 250 Spike Added	Resul 254. LCSI Resul	$\frac{t}{3} = \frac{Qua}{LCs}$	alifier SD	mg/Kg Cli Unit	D_	%Rec 102 mple ID: %Rec 103	Prep Ty %Rec. 	pe: S Sampl pe: S RPD 1	le Du Jolubi RP Lim 2 Blan
Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid				Added 250 Spike Added	Resul 254. LCSI Resul	$\frac{t}{3} = \frac{Qua}{LCs}$	alifier SD	mg/Kg Cli Unit	D_	%Rec 102 mple ID: %Rec 103	Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. Limits 90 - 110 Sample ID: Me	pe: S Sampl pe: S RPD 1	le Du olubi colubi <u>Lim</u> 2 Blan

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/20/21 13:46	1

Client: WSP USA Inc.

Project/Site: Remuda 500

Job ID: 890-529-1 SDG: TE012921030

Method: 300.0 - Anions, Ion Chromatography (Continued)

Materia: Oalist								Cli	ent	Sample	e ID: Lab C		
Matrix: Solid											Prep	Type: S	olub
Analysis Batch: 2049				0	1.00						0/ D		
• • •				Spike		LCS			_	~ =	%Rec.		
Analyte				Added		t Qualifier			<u>D</u>	%Rec	Limits		
Chloride				250	260.7		mg/Kg			104	90 - 110		
Lab Sample ID: LCSD 880-1943/3-A							CI	ient S	am	ple ID:	Lab Contro		
Matrix: Solid											Prep	Type: S	olub
Analysis Batch: 2049				• •							~-		
				Spike		LCSD			_	~-	%Rec.		RP
Analyte				Added	-	Qualifier			D	%Rec	Limits	RPD	Lim
Chloride				250	261.7	, 	mg/Kg			105	90 - 110	0	2
Lab Sample ID: 890-529-2 MS											Client Sam	ple ID: I	PH01
Matrix: Solid											Prep	Type: S	olub
Analysis Batch: 2049													
	Sample	Samp	le	Spike	MS	MS					%Rec.		
Analyte	Result	Qualif	ier	Added	Resul	t Qualifier	r Unit		D	%Rec	Limits		
Chloride	197			250	458.4		mg/Kg		_	105	90 - 110		
Lab Sample ID: 890-529-2 MSD											Client Sam	ple ID: F	РН01
Matrix: Solid												Type: S	
Analysis Batch: 2049												.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Sample	Samp	le	Spike	MSE	MSD					%Rec.		RF
Analyte	Result			Added	Resul		r Unit		D	%Rec	Limits	RPD	Lim
	197								_	104	90 - 110		
Chloride				250	456.9	,	mg/Kg			104	30 - 110	0	-
				250	450.8	,	ilig/Kg						
Lab Sample ID: MB 880-1944/1-A				250	450.8	,	mg/Kg				Sample ID:	Method	Blar
Lab Sample ID: MB 880-1944/1-A Matrix: Solid				250	456.8	,	iiig/kg				Sample ID:		Blar
Lab Sample ID: MB 880-1944/1-A Matrix: Solid		MR	MB	250	456.8	9	mg/kg				Sample ID:	Method	Blan
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050		MB I		250				Р		Client \$	Sample ID: Prep	Method Type: S	Blan olubl
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte	R	esult	Qualifier	250		Un	it	<u>D</u>			Sample ID: Prep 	Method Type: S	Blan olubl
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte	R		Qualifier	250		Un		<u>D</u>		Client \$	Sample ID: Prep	Method Type: S	Blan olub
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte	R	esult	Qualifier	250		Un	it		P	Client S	Sample ID: Prep 	Method Type: S zed 09:50	Blan olub Dil Fa
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride	R	esult	Qualifier	250		Un	it		P	Client S	Sample ID: Prep Analyz 04/22/21 e ID: Lab C	Method Type: S zed 09:50	Blan olub Dil Fa
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A	R	esult	Qualifier	250		Un	it		P	Client S	Sample ID: Prep Analyz 04/22/21 e ID: Lab C	Method Type: S zed 09:50	Blan olub Dil Fa
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid	R	esult	Qualifier	250 	RL 5.00	Un	it		P	Client S	Sample ID: Prep Analyz 04/22/21 e ID: Lab C	Method Type: S zed 09:50	Blan olubl Dil Fa
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid	R	esult	Qualifier		RL 5.00	Un mg	it /Kg	Cli	P	Client S	Sample ID: Prep 	Method Type: S zed 09:50	Blan olubl Dil Fa
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte	R	esult	Qualifier	Spike	RL 5.00	E LCS	it /Kg	Cli	P	Client S	Sample ID: Prep — Analy: 04/22/21 e ID: Lab C Prep %Rec.	Method Type: S zed 09:50	Blan olub Dil Fa
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride		esult	Qualifier	Spike Added	RL 5.00 LCS Resul	E LCS	it /Kg r <u>Unit</u> mg/Kg	Cli	Pr ent	Client S repared Sample <u>%Rec</u> 96	Sample ID: Prep — Analy: 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110	Method Type: S 2ed 09:50 ontrol S Type: S	Blar olub Dil Fr amp olub
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A		esult	Qualifier	Spike Added	RL 5.00 LCS Resul	E LCS	it /Kg r <u>Unit</u> mg/Kg	Cli	Pr ent	Client S repared Sample <u>%Rec</u> 96	Sample ID: Prep — Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro	Method Type: S 2ed 09:50 ontrol S Type: S	Blar olub Dil F amp olub
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A Matrix: Solid		esult	Qualifier	Spike Added	RL 5.00 LCS Resul	E LCS	it /Kg r <u>Unit</u> mg/Kg	Cli	Pr ent	Client S repared Sample <u>%Rec</u> 96	Sample ID: Prep — Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro	Method Type: S 2ed 09:50 ontrol S Type: S	Blan olub Dil Fa ampi olub
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A		esult	Qualifier	Spike Added 250	RL 5.00 LCS Resul 239.5	E LCS	it /Kg r <u>Unit</u> mg/Kg	Cli	Pr ent	Client S repared Sample <u>%Rec</u> 96	Sample ID: Prep Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep	Method Type: S 2ed 09:50 ontrol S Type: S	Blan olubi Dil Fa ampl olubi
Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A Matrix: Solid		esult	Qualifier	Spike Added	RL 5.00 LCS Resul 239.5	LCS Qualifier	it /Kg r <u>Unit</u> mg/Kg Cl	Clin	Pr ent	Client S repared Sample <u>%Rec</u> 96	Sample ID: Prep — Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro	Method Type: S 2ed 09:50 ontrol S Type: S	Blan olubl Dil Fa ampl olubl

Eurofins Xenco, Carlsbad

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

Job ID: 890-529-1 SDG: TE012921030

GC VOA

Prep Batch: 1895

Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
PH01	Total/NA	Solid	5035	
PH01A	Total/NA	Solid	5035	
PH02	Total/NA	Solid	5035	
PH02A	Total/NA	Solid	5035	
PH03	Total/NA	Solid	5035	
PH03A	Total/NA	Solid	5035	
PH04	Total/NA	Solid	5035	
PH04A	Total/NA	Solid	5035	
PH05	Total/NA	Solid	5035	
PH05A	Total/NA	Solid	5035	
PH06	Total/NA	Solid	5035	
PH06A	Total/NA	Solid	5035	
Method Blank	Total/NA	Solid	5035	
Lab Control Sample	Total/NA	Solid	5035	
Lab Control Sample Dup	Total/NA	Solid	5035	
Client Sample ID	Pron Type	Matrix	Method	Prep Batch
<u>.</u>				
Method Blank	Total/NA	Solid	5035	
Lab Control Sample	Total/NA	Solid	5035	
Lab Control Sample Dup	Total/NA	Solid	5035	
	Dren Tune	Matrix	Mathad	Drev Detch
				Prep Batch 1895
				1895
				1895
				1895
				1895
	PH01 PH01A PH02 PH02A PH03 PH03A PH04 PH05 PH05A PH06 PH06A Method Blank Lab Control Sample Lab Control Sample Dup	PH01 Total/NA PH01A Total/NA PH02A Total/NA PH03A Total/NA PH03A Total/NA PH04A Total/NA PH05 Total/NA PH05A Total/NA PH06A Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA PH07A Total/NA PH07A Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Lab Control Sample Dup Total/NA Lab Control Sample Dup Total/NA PH01 Total/NA PH02 Total/NA <td>PH01 Total/NA Solid PH01A Total/NA Solid PH02 Total/NA Solid PH02A Total/NA Solid PH03A Total/NA Solid PH03A Total/NA Solid PH04 Total/NA Solid PH04 Total/NA Solid PH05A Total/NA Solid PH06A Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07A Total/NA Solid PH07A Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup</td> <td>PH01 Total/NA Solid 5035 PH01A Total/NA Solid 5035 PH02 Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH05 Total/NA Solid 5035 PH06 Total/NA Solid 5035 PH06A Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 PH07 Total/NA Solid 5035 PH07 Total/NA Solid 5035</td>	PH01 Total/NA Solid PH01A Total/NA Solid PH02 Total/NA Solid PH02A Total/NA Solid PH03A Total/NA Solid PH03A Total/NA Solid PH04 Total/NA Solid PH04 Total/NA Solid PH05A Total/NA Solid PH06A Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07A Total/NA Solid PH07A Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup	PH01 Total/NA Solid 5035 PH01A Total/NA Solid 5035 PH02 Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH05 Total/NA Solid 5035 PH06 Total/NA Solid 5035 PH06A Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 PH07 Total/NA Solid 5035 PH07 Total/NA Solid 5035

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 PH05A Total/NA Solid 8021B 1895 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A 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	890-529-4	PH02A	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 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895	890-529-5	PH03	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 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06A 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	890-529-6	PH03A	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 PH06A 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	890-529-7	PH04	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	890-529-8	PH04A	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	890-529-9	PH05	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	890-529-10	PH05A	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	890-529-11	PH06	Total/NA	Solid	8021B	1895
LCS 880-1895/1-A Lab Control Sample 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
LCSD 880-1895/2-A Lab Control Sample Dup 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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Client: WSP USA Inc. Project/Site: Remuda 500

5

Job ID: 890-529-1 SDG: TE012921030

GC Semi VOA

Prep Batch: 1907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
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	
390-529-4	PH02A	Total/NA	Solid	8015NM Prep	
390-529-5	PH03	Total/NA	Solid	8015NM Prep	
390-529-6	PH03A	Total/NA	Solid	8015NM Prep	
390-529-7	PH04	Total/NA	Solid	8015NM Prep	
390-529-8	PH04A	Total/NA	Solid	8015NM Prep	
390-529-9	PH05	Total/NA	Solid	8015NM Prep	
390-529-10	PH05A	Total/NA	Solid	8015NM Prep	
390-529-11	PH06	Total/NA	Solid	8015NM Prep	
390-529-12	PH06A	Total/NA	Solid	8015NM Prep	
390-529-13	PH07	Total/NA	Solid	8015NM Prep	
390-529-14	PH07A	Total/NA	Solid	8015NM Prep	
/IB 880-1907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
-CS 880-1907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
CSD 880-1907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-529-1 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	Ргер Туре	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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Page 61 of 77

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

Job ID: 890-529-1 SDG: TE012921030

HPLC/IC

Leach Batch: 1943

each 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		8
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		
each Batch: 1944						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-529-12	PH06A	Soluble	Solid	DI Leach		
000 500 40	DUOT	0.1.1.1.	0.11.1	DULANT		

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	Ргер Туре	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

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

Job ID: 890-529-1 SDG: TE012921030

HPLC/IC

Analysis Batch: 2050

alysis Batch: 2050					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-529-12	PH06A	Soluble	Solid	300.0	
90-529-13	PH07	Soluble	Solid	300.0	1944
90-529-14	PH07A	Soluble	Solid	300.0	1944
IB 880-1944/1-A	Method Blank	Soluble	Solid	300.0	1944
CS 880-1944/2-A	Lab Control Sample	Soluble	Solid	300.0	1944
SD 880-1944/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1944

Eurofins Xenco, Carlsbad

Page 63 of 77

Lab Chronicle

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

Client Sample ID: PH01 Date Collected: 04/14/21 10:06

Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		1	2014	04/19/21 20:04	WP	XM

Client Sample ID: PH01A Date Collected: 04/14/21 10:40

Date Received: 04/15/21 12:22

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:12	WP	XM

Client Sample ID: PH02

Date Collected: 04/14/21 10:59 Date Received: 04/15/21 12:22

Lab Sample ID: 890-529-3 Matrix: Solid

Lab Sample ID: 890-529-4

Matrix: Solid

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

Client Sample ID: PH02A Date Collected: 04/14/21 11:13 Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		5	2049	04/20/21 15:32	WP	XM

Eurofins Xenco, Carlsbad

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-1 Matrix: Solid

Lab Sample ID: 890-529-2

Matrix: Solid

Lab Chronicle

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

Client Sample ID: PH03 Date Collected: 04/14/21 12:50

Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:48	WP	XM

Client Sample ID: PH03A Date Collected: 04/14/21 13:36

Date Received: 04/15/21 12:22

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		5	2049	04/20/21 15:53	WP	XM

Client Sample ID: PH04

Date Collected: 04/14/21 13:52 Date Received: 04/15/21 12:22

Lab Sample ID: 890-529-7 Matrix: Solid

Lab Sample ID: 890-529-8

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		1	2049	04/20/21 15:58	WP	XM

Client Sample ID: PH04A Date Collected: 04/14/21 14:05 Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		1	2049	04/20/21 16:03	WP	XM

Eurofins Xenco, Carlsbad

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-5 Matrix: Solid

Lab Sample ID: 890-529-6

Matrix: Solid

Lab Chronicle

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

Client Sample ID: PH05 Date Collected: 04/14/21 14:11

Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		5	2049	04/20/21 16:08	WP	XM

Client Sample ID: PH05A Date Collected: 04/14/21 14:18 Date Received: 04/15/21 12:22

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

Client Sample ID: PH06

Date Collected: 04/14/21 14:50 Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		5	2049	04/20/21 16:18	WP	XM

Client Sample ID: PH06A Date Collected: 04/14/21 14:59 Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		5	2050	04/22/21 11:20	WP	XM

Lab Sample ID: 890-529-12

Matrix: Solid

Eurofins Xenco, Carlsbad

Page 66 of 77

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-9 Matrix: Solid

Lab Sample ID: 890-529-10

Lab Sample ID: 890-529-11

Matrix: Solid

Matrix: Solid

5

9

Matrix: Solid

Lab Chronicle

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

Client Sample ID: PH07 Date Collected: 04/14/21 15:13

Date Received: 04/15/21 12:22

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	XM
Soluble	Analysis	300.0		1	2050	04/22/21 11:28	WP	XM
lient Samp	le ID: PH07A	<u> </u>						Lab Sample ID: 890-529-

Client Sample ID: PH07A Date Collected: 04/14/21 15:21 Date Received: 04/15/21 12:22

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	СН	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

Eurofins Xenco, Carlsbad

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-13 Matrix: Solid

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

Accreditation/Certification Summary

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

Laboratory: Eurofins Xenco, Midland

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

ithority		ogram	Identification Number	Expiration Date	
xas	NE	LAP	T104704400-20-21	06-30-21	
The following analytes	are included in this report, but	t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w	
the agency does not o Analysis Method		Matrix	Analyte		
the agency does not o Analysis Method 8015B NM	fer certification . Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH		

10

Job ID: 890-529-1

SDG: TE012921030

Eurofins Xenco, Carlsbad

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:

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

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

Eurofins Xenco, Carlsbad

Client Sample ID

PH01

PH01A

PH02

PH02A

PH03

PH03A

PH04

PH04A

PH05

PH05A

PH06

PH06A

PH07

PH07A

Sample Summary

Collected

04/14/21 10:06

04/14/21 10:40

04/14/21 10:59

04/14/21 11:13

04/14/21 12:50

04/14/21 13:36

04/14/21 13:52

04/14/21 14:05

04/14/21 14:11

04/14/21 14:18

04/14/21 14:50

04/14/21 14:59

04/14/21 15:13

04/14/21 15:21

Received

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

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04/15/21 12:22

Depth

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

Matrix

Solid

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

Lab Sample ID

890-529-1

890-529-2

890-529-3

890-529-4

890-529-5

890-529-6

890-529-7

890-529-8

890-529-9

890-529-10

890-529-11

890-529-12

890-529-13

890-529-14

12 13 14

Job ID: 890-529-1	
SDG: TE012921030	

Page 70 of 77

			~	Chain of Custody	VDOISN	×	Work Order No: _	
X	XmNCO	Housto	n,TX (281) 240-4200 (Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (214)	0 San Antonio, TX (210) 509-3334			
	ロ た 入 T ロ R i 所 領	Hobbs,NM (575-39	2-7550) Phoenix,AZ (4	180-355-0900) Atlanta,	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)		www.xenco.com	Page 1 of J
Project Manager:	Dan Moir		Bill to: (if different)	Kyle Littrell			Work Order Comments	ments
	WSP USA		Company Name:	XTO Energy		Program: UST/PST	RP prownfields	s [RC {] perfund
	3300 North A Street		Address:	522 W. Mermod St		State of Project:		
City, State ZIP: N	Midland, TX 79705		City, State ZIP:	Carlsbad, NM 88220	20	Reporting:Level II		
Phone: ((432) 236-3849	Email	Email: Jeremy.Hill@wsp.com,	com, Dan Moir@wsp.com	com	Deliverables: EDD	ADaPT	Other:
Project Name:	nemude So	100 T	Turn Around		ANALYSIS REQUEST	EST		Work Order Notes
Project Number:	TEC12921030	Ro	ine IV				CC	CC: 106760 1001
	Spill Data 2/8	18/21 Rush:					4	7~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Sampler's Name:	Jeremy Hill		Due Date:				10	
SAMPLE RECEIPT	PT Temp Blank:	Nes No Wet Ice:	Yes No					
Temperature (°C):	4.6	Thermometer ID))	-			
Received Intact:	(Yes) No	T-NM-00-		021)	Second to the second se	rota		
Cooler Custody Seals:	Yes (No	Correction Factor:	4.4	0=8				TAT starts the day receiied by the
Sample Custody Seals	: Yes Nor N/A	I otal Containers:	er c	(EPA				lab, if received by 4.30pm
Sample Identification	fication Matrix	Date Time Sampled Sampled	Depth	TPH (I BTEX Chlor				Sample Comments
puter	2	9001 JC/HI/H	1.0 1	XXX				Discale
PIFOLA		1 1040	3.0					
101-00		1051	1.0.					
Neofid		1113	3.0					
P1-103		198422	1.0					
PHO3A		1336	3.0.					
Ditori		1352	1.0.					
PITONA		1405	3,6'					
DItos		11411	1.0.					
PItoSA	8	81h1 A	3.0.	4				9
Total 200.7 / 6010	10 200.8 / 6020:	<u>∞</u>	kas 11	VI Sb As Ba Be	Cd Ca Cr Co	Mn Mo Ni K	Se Ag SiO2 Na Sr	r TI Sn U V Zn
Circle Method(s)	Circle Method(s) and Metal(s) to be analyzed	alyzed TCLP / SPLP 6010:	LP 6010: 8RCRA	Sb As Ba Be	Cd Cr Co Cu Pb Mn Mo Ni Se	II SE AG II U	76377	1631 / 243.1 / /4/U / /4/1 . Hg
of Xenco. A minimum char	cument and relinquishment o ible only for the cost of sampi ge of \$75.00 will be applied to	f samples constitutes a valid p les and shall not assume any r each project and a charge of 1	urchase order from clie esponsibility for any los 5 for each sample subn	nt company to Xenco, its ses or expenses incurrec nitted to Xenco, but not ar	Note: Orgenture of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ns standard terms and conc o circumstances beyond the unless previously negotlated	litions control d.	
Relinquished by: (Signature)	(Signature)	Received by: (Signature	ure)	Date/Time	Relinquished by: (Signature)	ure) Receiv	Received by: (Signature)	Date/Time
1 mar	Ciarban	and uish	172:22		2			
3					4			
5					0			Revised Date 051418 Rev 2018
								Revised Date 051418 Rev 2018 1

Page 33 of 38

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

Page 71 of 77

			Chain of Custody	ustodv	Worl	Work Order No:	
X	XENCO	Houston,TX (281) 240-42 Midland TX (432-704-5-	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)7	louston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio.TX (210) 509-3334 Mirland 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)	AZ (480-355-0900) Atlanta,G	A (770-449-8800) Tampa,FL (813-	WW	www.xenco.com Page	010
Project Manager:	Dan Moir	Bill to: (if different)	t) Kyle Littrell			Order Comme	
/ Name:	WSP USA	Company Name:			State of Project:	RP prowntields kc	(C)perruna
	Midland TV 70705	City State 710	Carlebad NM 88220	5	Reporting:Level II Lev		
Phone: ()	(432) 236-3849	Email: Jeremy.Hill@w	sp.co	om	Deliverables: EDD	ADaPT	Other:
Namo.	Dounder 560	Turn Around		ANALYSIS REQUEST	IST	Wo	Work Order Notes
Project Number:	15012921030	Routine IV					CC: 1067601001
P.O. Number:	Sp.11 N.K. 2/8/21	Rush:				Tre dat N	NAPPA104347351
Sampler's Name:	Jeremy Hill	Due Date:					
SAMPLE RECEIPT	Temp Blank:	Yes No Wet Ice: Yes No	5				
Temperature (°C):	1,10	Thermometer ID)				
Received Intact: Cooler Custody Seals:	Yes No 1-	Correction Factor: U.U.)15))=8021			TAT start	TAT starts the day recevied by the
Sample Custody Seals	Yes (No)	Total Containers:	PA 8			lab, ii	tab, if received by 4:30pm
Sample Identification	Matrix	Date Time Depth Sampled	Numb TPH (E BTEX (Chlorid			San	Sample Comments
Pitab	/r 51	14/2 1450 1.8'	XXX 1			pig	Discrete
P1+0.02		2					
DIto?		1513 1.0'					
putona	<	1521 3.0	4				
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11 A d TCLP / SPLP 6010: 8RCRA	1 Al Sb As Ba Be B Cd Ca CRA Sb As Ba Be Cd Cr Co	3 Cd Ca Cr Co Cu Fe Pb Mg Mn Mo M d Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	i Mg Mn Mo Ni K Se Ag SiO2 Na Ii Se Ag Ti U 1631	Sr TI / 245.	Sn U V Zn 1 <i>1</i> 7470 <i>1</i> 7471 : Hg
<u>Notice: Signature of this de</u> of service. Xenco will be li of Xenco. A minimum char	oument and refinquistiment of samp able only for the cost of samples and ge of \$75.00 will be applied to each p	Notice: Supature of the determent and refinquismment or 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 Service. 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.	n client company to Xenco, its a ny losses or expenses incurred submitted to Xenco, but not an	affliates and subcontractors. It assign by the client if such losses are due to alyzed. These terms will be enforced u	ns standard terms and condition o circumstances beyond the con unless previously negotiated.	ns Itrol	
Relinquished by: (Signature)	(Signature) Rec	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	ure) Received	Received by: (Signature)	Date/Time
1 Jon l	r Clabby	U 411512112:22		4 2			
5				σ			Revised Date 051418 Rev 2018 1
							Revised Date 051418 Rev 2018 1

Received by OCD: 5/7/2021 2:13:46 PM



Page 72 of 77

Received by OCD: 5/7/2021 2:13:46 PM

Page 73 of 77

Eurotins Xenco, Carlsbad 1089 N Canal St.

Chain of 13 2

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Carlsbad NM 88220 1089 N Canal St. Eurofins Xenco, Carlsbad 8

Chain of Custody Record

13

🔅 eurofins

Carlsbad NM 88220 Phone 575.088.3100 Eav: 575.088.3100		Chain of	Chain of Custody Record	Rec	Ör	0												¢		 > m	Environment Testing America
Client Information (Sub Contract Lab)	Sampler:		75	Lab PM Kramer Jessica	Jessi	_ର						Carrier Tracking No(s)	Track	ing No	(s)			<u>8 0</u>	COC No: 890-168 2		
	Phone [.]		<u> </u>	E-Mail jessica kramer@eurofinset com	rame	@e	Irofin	set co	з			State of Origin: New Mexico	fOrig	8 3				ק ק	Page Page 2 of 2		
Company: Eurofins Xenco				Accr	AP -	Ins Re	iquired Siana	Accreditations Required (See note) NELAP - Louisiana NELAP	<u>۳</u>	Texas	L							ی م <u>چ</u>	Job #: 890-529-1		
Address. 1211 W Florida Ave	Due Date Requested 4/21/2021	ted						>	2 1	vsis	Requested	lest	2					–	Preservation Codes	des	
City Midland	TAT Requested (days)	lays)			<u>alaanad</u>		-	-1							_			<u>~~~</u> ∖ ⊡ ≻	HCL NaOH	ZZ	
State, Zip. TX, 79701				<u> .</u>	<u> Andrea</u>				******								, Maria 144.	πσα		ους	ASNAUZ Na2O4S Na2SO3
Phone: 432-704-5440(Tel)	PO #:				ТРН															י כד מיו	Na2S2O3 H2SO4
Email	WO #				6.492.06.0.01	· · · · · · · · · · · · ·											n ja ja mang a	Generalista	 Ascorbic Acid Ice DI Water 	<	I SP Dodecanydrate Acetone MCAA
Project Name: Remuda 500	Project #:			10.5-Y COTTON	ida (h-l														EDA	N≶	other (specify)
Site:	SSOW#			0.0000000000000000000000000000000000000	<u> 199</u> 58.												Sec. 10	ANICARCO CON	Other [.]		
			-	tered S	Areality (1, A.S.																
Sample Identification - Client ID (Lab ID)	Sample Date	Sample () Time 0	(C=comp, 0=waste/oll, G=grab) BT=Tissue, A=Air	Field Fi	Perforn 8015MO	300_OR	8021B/5										Total Ni	IULAI IN	Special	nstr	Special Instructions/Note:
	N		00.0	Second	X		in the second	antourte A		auricu a		the state						\triangle			
PH05A (890-529-10)	4/14/21	14 18 Mountain	Solid		×	×	×										(in the				
PH06 (890-529-11)	4/14/21	14 50 Mountain	Solid		×	×	×										4	, see s named at			
PH06A (890-529-12)	4/14/21	14 59 Mountain	Solid		×	×	×										E carlo de				
РН07 (890-529-13)	4/14/21	15 13 Mountain	Solid		×	×	×										ي ي	and the second			
PH07A (890-529-14)	4/14/21	15 21 Mountain	Solid		×	×	×						 			┝──┤		، نېغې (درهمېرونه			
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					-							ļ	ļ	ļ			(1-1-1-) 1	Looman			
Note Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be horiget to Eurofine Xenco	LC places the ownersh	ip of method analy samples must be s	te & accreditation com	ofins Xer		t subc	ontrac	t labora	atories	This	samp	e ship	ment	s forw	arded	unde	chai	T-of-c	ustody If the lat	borato	ry does not currently
Possible Hazard Identification Unconfirmed						Ref:	ispos	Sample Disposal (A fee	fee	may	be assessed if samples are	assessed if san	ed i	san	nple	are	reta	inec	retained longer than Archive For	1	month)
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank 2	rable Rank 2			Speci	al In	struct	Special Instructions/QC		Requirements	emer	ts									
Empty Kit Relinquished by		Date		Time	Ð								Method of Shipment:	of St	lipme	f					
Relinquished by DUDATA OrdUNL2	5	15/13/1	Company		R	Received by	a by	8	M	\mathcal{N}	N,				Date/Time:	me:				0	Company
1	Date/ I ime:		Company		Re	Received by	ďByć			,	ſ				Date/Time:	me:				0	Company
Relinquished by	Date/Time;		Company		R	Received by	d by								Date/Time:	me:					Company
Custody Seals Intact Custody Seal No ∆ Yes ∆ No					<u></u>	oler T	emper	Cooler Temperature(s) °C		and Other Remarks	er Rer	narks.		ļ						ŀ	

Ver 11/01/2020

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 529 List Number: 1 Creator: Ordonez, Gabby

<6mm (1/4").

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	N/A	

Job Number: 890-529-1 SDG Number: TE012921030 List Source: Eurofins Carlsbad 5 6 7 8 9 10 11 12 13 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 529 List Number: 2 Creator: Copeland, Tatiana

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	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-529-1 SDG Number: TE012921030

List Source: Eurofins Midland

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

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	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

CONDITIONS

Page 77 of 77

Action 27390