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

)

Paged lof /73

Incident ID	NAPP2111852118
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

-103.93655

Latitude 32.27029

Site Name Remuda 500	Site Type CTB
Date Release Discovered 04/15/2021	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

al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls) 11.75	Volume Recovered (bbls) 10.0
Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
l-o-let with a broken nipple and seal released produced vector has been retained for remediation activities.	water into containment and onto soil. A third-party
	Volume Released (bbls) Volume Released (bbls) 11.75 Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (bbls) Volume Released (Mcf) Volume/Weight Released (provide units)

Page 2

NA

Oil Conservation Division

Incident ID	NAPP2111852118
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? N/A
🗌 Yes 🗶 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	

Initial Response

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

 \checkmark The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Adrian Baker Signature: Dafus	Title: SSHE Coordinator Date: 4/28/21 Talanhanai 432-221-7331
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>5/10/2021</u>

Location:	: Remuda 500 CTB		
Spill Date:	4/15/2021		
	Area 1		
Approximate A	rea =	56.15 cu.ft	τ.
	VOLUME OF LEAK		
Total Produced	Water =	10.00 bbls	
	Area 2		
Approximate Area = 571.00 sq. ft		t.	
Average Saturation (or depth) of spill = 1.38 inche		es	
Average Porosity Factor = 0.15			
VOLUME OF LEAK			
Total Produced Water = 1.75 bbl		1.75 bbls	
TOTAL VOLUME OF LEAK			
Total Produced	Total Produced Water = 11.75 bbls		
	TOTAL VOLUME RECOVERED		
Total Produced	Water =	10.00 bbls	;

CONDITIONS

Action 26087

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 <u>District IV</u> 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 OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	26087	C-141
Building #5 Midland, TX79707			
OCD Reviewer	Condition		
rmarcus	None		

Received by OCD: 7/12/2021 1:04:20 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 5 of 7.
Incident ID	NAPP2111852118
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>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
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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: 7/12/202	21 1:04:20 PM State of New Mex	ico		Page 6 of 73
			Incident ID	NAPP2111852118
Page 4	Oil Conservation Div	V1S10n	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environm failed to adequately investigg addition, OCD acceptance of and/or regulations. Printed Name:	rmation given above is true and comple required to report and/or file certain rel nent. The acceptance of a C-141 repor ate and remediate contamination that p f a C-141 report does not relieve the op <u>Adrian Baker</u> <u>rion Bays</u> ker@exxonmobil.com	lease notifications and perform t by the OCD does not relieve ose a threat to groundwater, su perator of responsibility for co Title: <u>SSH</u> Date:6/29/2	n corrective actions for re the operator of liability s urface water, human healt mpliance with any other f	eleases which may endanger should their operations have th or the environment. In federal, state, or local laws
OCD Only Received by:		Date:		

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Oil Conservation Division

Incident ID	NAPP2111852118
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Facility ID	
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Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: <u>Adrian Baker</u>	Title:	SSHE Coordinator
Advior Basis	Date:6/29/202	<u>1</u>
email:Adrian.Baker@exxonmobil.com	Telephone:	432-221-7331
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	water, human health, or t	
Closure Approved by: <u><u><u>ennifer</u> Nobui</u> Printed Name: Jennifer Nobui</u>	Date: 06/08	3/2022
Printed Name: Jennifer Nobui	Title: Env	vironmental Specialist A

WSP USA

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

June 29, 2021

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

RE: Closure Request Remuda 500 CTB Incident Number NAPP2111852118 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 CTB (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 a release of produced water at the Site. Based on field observations, field screening activities, and soil sample analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2111852118.

RELEASE BACKGROUND

On April 15, 2021, a weld-o-let with a broken nipple and seal released produced water, resulting in the release of 11.75 barrels (bbls) of produced water into containment and onto the well pad. Approximately 10.0 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on April 28, 2021 and was assigned Incident Number NAPP2111852118.

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). The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321717103561001, located approximately 1.22 miles north of the Site. The groundwater well was most recently measured in January 2003, with a reported depth to groundwater of 50 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location is 3,032 feet above mean sea level (amsl), which is approximately 27 feet higher in elevation than the Site. There are two additional groundwater wells within a 2-mile radius of the Site that indicate regional depth to groundwater is between 51-100 feet bgs. The referenced well records are included in Attachment 1.



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In an effort to confirm depth to water in the area, a borehole (C 4494) was advanced to a depth of 105 feet bgs via truck-mounted hollow stem auger. The borehole was located approximately 0.33 miles northwest of the Site. The location of borehole C 4494 is depicted on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 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 utilizing hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a wetland, located approximately 1.08 miles east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On May 12, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground surface. 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.



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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 through 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 vertical assessment activities were scheduled.

On May 17, 2021, WSP personnel returned to the Site to oversee additional soil assessment activities. Two boreholes BH01 and BH02, were advanced via hand auger to depths ranging from approximately 1-foot bgs and 3 feet bgs within the release extent. Boreholes BH01 and BH02 were advanced at the SS01 and SS02 preliminary soil sample locations, respectively. Delineation soil samples were collected from the boreholes at depths ranging from 1-foot bgs to 3 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab[®] test strips, respectively. Field screening results and observations for each borehole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The pothole and delineation soil sample locations are presented on Figure 2. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. All boreholes were backfilled with soil removed. Photographic documentation was conducted during the site visits. A photographic log is included in Attachment 3.

ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 and SS02 and delineation soil samples collected from boreholes BH01 through BH02 indicated that benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. In addition, soil concentrations of benzene, BTEX, TPH and chloride from BH02 collected at 3 feet bgs are in compliance with the strictest Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Preliminary samples SS01 and SS02 and delineation samples from boreholes BH01 and BH02 were collected from within the release extent from depths ranging from 0.5 feet to 3 feet bgs to assess for the presence or absence of soil impacts as a result of the April 15, 2021, produced

vsp

District II Page 4

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 Site Closure Criteria. The Site is vertically delineated to the strictest Table 1 Closure Criteria by BH02A collected at 3 feet bgs.

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 produced water release. XTO respectfully requests NFA for Incident Number nAPP2100834529.

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

Sincerely,

WSP USA Inc.

Fatima Smith Associate Consultant, Geologist

Ashley L. ager

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

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

Attachments:

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



Released to Imaging: 6/8/2022 11:30:45 AM



Table 1

Soil Analytical Results Remuda 500 XTO Energy, Inc. Incident Number NAPP2111852118 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	sure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	05/12/2021	0.5	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	6,440
SS02	05/12/2021	0.5	< 0.00201	< 0.00402	92.3	<49.9	<49.9	92.3	92.3	6,550
Delineation Samples										
BH01	05/17/2021	2	< 0.00200	< 0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	786
BH02	05/17/2021	1	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	4,110
BH02A	05/17/2021	3	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	126

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



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National Water Information System: Web Interface

USGS Water Resources

Data	Category:	
Site	Information	

Geographic Area: **United States**

GO

×

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USGS 321717103561001 23S.29E.24.41321

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

Latitude 32°17'17", Longitude 103°56'10" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 3,034 feet above NAVD88. Well completed in "Other aquifers" (N9999OTHER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1983-02-02	2003-01-29	4
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency_code=USGS&site_no=321717103561001

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2021-06-10 16:13:56 EDT 0.28 0.26 caww01



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						DUCA			BH or PH Name:		Date:		
					WS	P USA			BH01 (C-4494)		11/18/2020, 12/02/20, 01/05/2021		
				5	08 West S	Stevens S	Street		Site Name:	Remu	da North 25 Observation Well		
				Car	lsbad, Ne	w Mexico	88220		RP or Incident Numbe				
									LTE Job Number:		TE012919039		
		LITH	OLOG	IC / SOIL			G		Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic		
Lat/Lo	ong:				Field Scre	ening:		Hole Diameter:		Total Depth:			
Comm	nents:								6.25", 4.25"		105'		
	Comments: Lithology remarks only. No field screenings: Dry hole												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lith	ology/R	emarks		
D			Ν			1	SP-SC						
			N		▲ · ▌ · ▌ · ▌ · ▌ · ▌ · ▌ · ▌ · ▌ · ▌ ·	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		0-1' : SA some ro 1-4' : SA grain, sc 4-9' : CA rounded 9-14' : A 14-19' : 19-24' :	ots, no stain, no odo ND, dry, reddish-ligh ome rounded caliche LICHE, dry, light bro caliche pebbles and bundent sub-round o Some sub-angular c	or pebbles own-tan, d gravel, caliche g aliche g	, poorly consolidated, sub- , very silty, gradational gravel		
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USP USA Date: Date: Date: 2011 Model Showed Showt 2011 Model Showed Showt 2011 Model Showt 2012 Model Showt 2011 Model Showt 2011 Model Showt 2012 Model Showt 2012 Model Showt 2011 Model Showt 1111 Model Showt 2012 Model Showt 2012 Model Showt 2011 Model Showt 1111 Model Showt 2012 Model Showt 2012 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2011 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2012 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2013 Model Showt 1111 Model Showt 2013 Model Showt 2013 Model Showt 2014 Model Showt 11												1
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LITHOLOGIC / SOIL SAMPLING LOG Logger (P) 88, LAD, PS Method Hold State Holder State Auger, sonic Trail Depth. (Comments. (Comments. (Comments. (Comments. (Comments.)) Interference Trail Depth. (Comments. (Comments.) Trail Depth. (Comments.) Trail Depth. (Comments.) Comments. (Comments.) Comments. (Comments.) Comments.												
LITHOLOGIC / SOIL SAMPLING LOG Logger (P) 88, LAD, PS Method Hold State Holder State Auger, sonic Trail Depth. (Comments. (Comments. (Comments. (Comments. (Comments.)) Interference Trail Depth. (Comments. (Comments.) Trail Depth. (Comments.) Trail Depth. (Comments.) Comments. (Comments.) Comments. (Comments.) Comments.										LTE Job Number:		TE012919039
Lattury: Field Streaming: Item Dameter: Total Depth Comments: Lithology remarks only. No field screenings: Dry hole 525', 425'' 105'' Indicating of the screening of the scree			LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By BB, LAD, FS	;	
Lithology remarks only. No field screenings: Dry hole Sample Depth (ft bps) So field screenings: Dry hole Lithology/Remarks uning of the discreenings: Dry hole 1 26 CL 24-39 : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tait no odor, sharp transition D N 28 26 CL 24-39 : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tait no odor, sharp transition 34-39 : Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown, dry, well consolidated, with dissolution features (1-3mm), tan-light brown, dry, well consolidated, with dissolution features (1-3mm), tan-light brown, dry, well consolidated, with dissolution features (1-3mm), tan-light brown, dry, well consolidated, with dissolution features (1-3mm), tan-light brown, dry, well consolidated, dark gray-black banding, no dry, light to moderate reaction with HCl A 39 DOL 34 44 45 46 46 47 44 45 46 46 47 47 48 46 46 46 47 48 46 46 47 48 46 46 47 48 48 46 46 46 47 48	Lat/Lo											Ţ
Lithology remarks only. No. Field screenings: Dry hole understand understand <thunderstan< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>6.25", 4.25"</td><td></td><td>105'</td></thunderstan<>										6.25", 4.25"		105'
Bigger Digger Digger Digger Digger Digger Digger Digger Digger Digger Di			s only No	field o	creeninge: D	ry hole						
D N 26 CL 24-39 : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tait no odor, sharp transition 30 34-39 : Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown. At 39 : Begin air rotory (4.25°) 31 32 39 : Begin air rotory (4.25°) 33 34 42 : DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, r odor, light to moderate reaction with HCl 42.43 : Stop due to air rotory refusal (11/18/20) 48 : Stop due to air rotory refusal (11/18/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor N 40 44 45 42 43 44 45 44 45 46 47 48 Refusal on 11/18/20 Refusal on 11/18/20						Sample	Depth	Rock bol				
D N 27 24-39': MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tain no dor, sharp transition 34:39': Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, r odor, light to moderate reaction with HCl 32 39-42': DDLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, r odor, light to moderate reaction with HCl 33 448': Stop due to air rotory refusal (11/18/20) 48 48': Stop due to air rotory refusal (11/18/20) 41 42 43 44 44 45 45 46 47 Refusal on 11/18/20 88 Refusal on 11/18/20		Chlo (pp	Vap (pp		Samp		(ft bgs)			Litr	iology/Ħ	Cemarks
D N A <th>D</th> <th></th> <th></th> <th>Ν</th> <th></th> <th>L 1</th> <th>26</th> <th>CL</th> <th></th> <th></th> <th></th> <th></th>	D			Ν		L 1	26	CL				
D N 20 34-39': Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown. At 39': Begin air rotory (4.25'') 30 At 39': Begin air rotory (4.25'') 31 39-42: DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, r odor, light to moderate reaction with HCl 32 33 44 33 44 36 37 38 39 DOL 40 41 42 43 44 44 45 46 47 47 Refusal on 11/18/20						-	27		consolid	ated, cohesive, trac		
D N 429 features (1-3mm), tan-light brown At 39 : Begin air rotory (4.25") 39-42': DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, rodor, light to moderate reaction with HCl 32 33 34 42-45': Some light gray dolomite with trace dissolution features ((-1mm) 34 48-56': Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor 39 DOL 41 42 43 44 44 44 45 46 47 Refusal on 11/18/20 Restart borehole on 12/02/20 Restart borehole on 12/02/20						-	_				n carbor	nate gravel with dissolution
D N 39-42': DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with disate reaction with HCl 33 34 33 34 34 42-45': Some light gray dolomite with trace dissolution features (>1mm) At 48': Stop due to air rotory refusal (11/18/20) 48-56': Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor 90 N 40 43 41 42 43 44 44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20						-	_		features	(1-3mm), tan-light b	orown	<u> </u>
D N 31 consolidated, with dissolution features (1-3mm), sharp, no stain, r odor, light to moderate reaction with HCl 42-45': Some light gray dolomite with trace dissolution features (1-11/18/20) 44 43 37 38 39 DOL 41 42 43 44 44 45 44 45 44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20						-	_ 00					ton Balat become almost 11
N 32 42-45°: Some light gray dolomite with trace dissolution features (>1mm) At 48°: Stop due to air rotory refusal (11/18/20) 48-56°: Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor 0 N 40 41 42 43 44 45 46 47 48 Refusal on 11/18/20 Refusal on 11/18/20						_	_		consolid	ated, with dissolutio	n featur	res (1-3mm), sharp, no stain, no
D N At 48': Stop due to air rotory refusal (11/18/20) 48-56': Advance borehole with new air rotary bit (12/02/20), DOLOMITE, while, well consolidated, dark gray-black banding, no stain , no odor 38 39 DOL 41 42 43 44 42 43 44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20							_		42-45' :	Some light gray dolo		
A8-56': Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor N 40 41 42 43 44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20							_				/ refusa	l (11/18/20)
D N D D D D D D D D D D D D D D D D D D						-	_					
D N N A A B B B B B B B B B B B B B B B B						-	36		stain , n	o odor		
D N DOL DOL DOL 40 41 42 43 44 45 46 47 48 <u>Refusal on 11/18/20</u> Restart borehole on 12/02/20						-	37					
D N A0 40 41 42 43 44 44 45 46 47 48 <u>Refusal on 11/18/20</u> <u>Restart borehole on 12/02/20</u>						-	_					
41 42 43 44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20	D			Ν		-	_	DOL	-			
43 44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20						-	_					
44 45 46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20						-	42					
45 46 47 48 <u>Refusal on 11/18/20</u> Restart borehole on 12/02/20						-	43					
46 47 48 Refusal on 11/18/20 Restart borehole on 12/02/20						- -	_					
47 48 Refusal on 11/18/20 Restart borehole on 12/02/20						-	_					
Restart borehole on 12/02/20						-	_					
						-	48					
						-	49					Restart porenole on 12/02/20
50						-	50					

									BH or PH Name:		Date:	
					WS	P USA			BH01 (C-4494)		11/18/2020. 12/02/2020, 1/5/2021	
				5	08 West S	Stevens S	Street		Site Name: Re	emuda N	orth 25 Observation Well	
				Car	Isbad, Nev	w Mexico	88220		RP or Incident Number:			
									LTE Job Number: TE012919039			
1 (1)		LITHO	OLOG	IC / SOII				Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic		
Lat/Lo	ong:				Field Scre	ening:		Hole Diameter: 6.25", 4.25"		Total Depth: 105'		
Comm Litholo	nents: ogic log on	ly, no field	d screer	nings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/R	emarks	
D D Co	C		St	Sa	(ft bgs)	$ \begin{bmatrix} 1 \\ 5 \\$	DOL CH-S	DOLOM no odor At 56' : F 56-65' : calcium (2mm) w within di 62' : Bro stringer 63-65' : gray, po 65-69' : high plas pale gre 69-81' :	ITE, white, well cons Restarted borehole o DOLOMITE, dry, ligh crystalline veins (<1r vith fine calcite crysta ssolution features, no wn-pale yellow coars (2cm) Abundant calcite cryst orly consolidated MUDSTONE, moist, sticity, cohesive, abu en-gray mottling, no GYPSUM with Anhyc	n 1/5/2 t gray- mm), s alline, ti o stain se crys stalline reddisi ndant o stain, r drite, di	gray, well consolidated, some ome dissolution features race orange oxidation staining , no odor talline dolomitic limestone e veins (<1mm), pale green- h brown, poorly consolidated, coarse crystalline gypsum, few	
						73 74 75						

								BH or PH Name:	Date:		
					WSP USA			BH01 (C-4494)	11/18/2020. 12/02/2020, 1/5/2021		
				F	08 West Stevens	Street		, , ,	muda North 25 Observation Well		
				Car	Isbad, New Mexic	0 88220		RP or Incident Number:			
								LTE Job Number: TE012919039			
		LITH	OLOG	IC / SOII	L SAMPLING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic		
Lat/Lo	ng:				Field Screening:		Hole Diameter: 6.25", 4.25"	Total Depth:			
Comm	nents:							0.23 , 4.23	105'		
Litholo	ogic log on	ly, no field	d screei	nings	1	1					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)			Litho	logy/Remarks		
					76 77 78	GYP	yellow, v no odor 81-98' :	vell consolidated, finr MUDSTONE, moist, o	lrite, dry, greenish gray, some pale crystalline, 20% anhydrite, no stain, dark reddish brown, moderately cohesive, trace coarse crystalline		
D			N		79 80 81	CH-S	gypsum 85-86.5' gypsum,	inclusions, no stain,	no odor consolidated coarse crystalline		
D			Ν		82 83 84 84 85 86 86 87 88 88 90 90 91 91 92 91 92 93 91 92 93 93 94 92 93 93 94 95 96 97 98	CH-S	At 97' : d 98-99.5' consolid 99.5-10	lark gray-gray gyspur : GYPSUM, dark gra ated, fine-coarse crys 5' : Sandy SILTSTON			
D			Ν		99	GYP]				
D			Ν		100	ML-S					

									BH or PH Name:		Date:	
					WSP L	JSA			BH01 (C-4494)		11/18/2020. 12/02/2020, 1/5/2021	
				5	i08 West Stev Isbad, New N	vens Str	reet			emuda N	North 25 Observation Well	
				Car	Isbad, New N		RP or Incident Number:					
									LTE Job Number: TE012919039			
1 = 1/1 =		LITH	OLOG	IC / SOIL			i		Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Lo	ng:				Field Screenir	ng:			Hole Diameter: 6.25", 4.25"		Total Depth: 105'	
Comm Litholo	ients: ogic log onl	y, no field	d screer	nings							•	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft bgs) (ft		USCS/Rock Symbol				Remarks	
						101 I 102					bist, brown, some gray-dark y fine grain sand, no stain, no	
					I T	103 104			Thin (<1mm) lamina inger (4cm thick)	ated bl	ack/gray well consolidated	
D			N			105		TD @ 10	05' bgs (1/5/2021)			
					I T	106 107						
					I T	108 109						
					I T	110						
					I T	111 112						
						113						
						114 115						
					I T	116						
					I T	117 118						
						119						
					I T	120 121						
						122 123						
					I T	123						
						125						

							BH or PH Name:	Date:			
	WSP USA					BH01					
	508 West Stevens Street Carlsbad, New Mexico 88220							5/17/2021			
								Site Name: Remuda 500 RP or Incident Number: NAPP2111852118			
						WSP Job Number: 314032					
					SAMPLING LO	G	Logged By: WM	Method: Hand Auger			
Lat/Lor	ng: 32.270				Field Screening:	0	Hole Diameter:	Total Depth:			
					HACH chloride strip	s, PID	3 inches	2 feet bgs			
Comme	ents: D-dr	y; N-no									
—											
e te	<u>e</u>		g	#	Sample Denth						
stui	pm	Vapor (ppm)	inin	ple	Depth Depth	S/R nbc	Lithol	Lithology/Remarks			
Moisture Content	Chloride (ppm)	Va (p	Staining	Sample #	(ft bgs) (ft bgs)	USCS/Rock Symbol					
	-			0)		ŝ					
					0	CCHE 0-2'	CALICHE, dry, tan, poorly o stain, no odor	/ consolidated, some sand, some si			
					+	'	o stain, no ouoi				
D	336	0.0	Ν		<u> </u>						
					4						
					+						
D	761	0.1	Ν	BH01	2 2						
$\overline{\mathbf{\nabla}}$						<u> </u>					
						TD (@ 2 feet bgs				
	\mathbf{i}										
		< l>									
		$\overline{\ }$									
			$\overline{}$								
l											

									BH or PH Name:		Date:	
WSP USA						BH02		5/17/2021				
WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220						Site Name: Remu	do 500	5/17/2021				
				c Car	sbad. Ne	w Mexico	88220		RP or Incident Nur		11852118	
						WSP Job Number:						
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By: WM		Method: Hand Auger	
Lat/Lo	ng: 32.270				Field Scre		-		Hole Diameter:		Total Depth:	
					HACH chl	oride strips	s, PID		3 inches		3 feet bgs	
Comm	ients: D-dr	y; N-no										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	# Sample Depth (ft bgs)			Lithology/Remarks					
D	3,220 184	0.0	N	BH02	1 1 		CCHE	0-3' CAL no s	ICHE, dry, tan, tain, no odor	poorly cons	solidated, some sand, so	ome silt
D	<184	0.0	Ν	BH02A	3	3						

wsp

PHOTOGRAPHIC LOG					
XTO Energy, Inc.	Remuda 500	NAPP2111852118			
	Eddy County, New Mexico				

Photo No.	Date	
1	May 12, 2021	
View of release lo northw		



wsp

XTO Energy, Inc.	Remuda 500	NAPP2111852118
	Eddy County, New Mexico	





🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-661-1

Laboratory Sample Delivery Group: 31403236.002.0129 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: 5/18/2021 2:59:31 PM Jessica Kramer, Project Manager

(432)704-5440 jessica.kramer@eurofinset.com

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

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

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at: www.eurofinsus.com/Env

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Client: WSP USA Inc. Project/Site: Remuda 500 Page 35 of 73

3

Job ID: 890-661-1
SDG: 31403236.002.0129

Qualifiers		
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	

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

Case Narrative

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

Job ID: 890-661-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-661-1

Comments

No additional comments.

Receipt

The samples were received on 5/12/2021 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3053 and analytical batch 880-3051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-3152 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated sample is: SS02 (890-661-2).

No additional analytical or quality issues were noted, other than those described above or 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.

4
Job ID: 890-661-1 SDG: 31403236.002.0129

Lab Sample ID: 890-661-1

Matrix: Solid

5

Client Sample ID: SS01 Date Collected: 05/12/21 10:45

Project/Site: Remuda 500

Date Received: 05/12/21 16:55

Sample Depth: - 0.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		05/13/21 14:00	05/13/21 17:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/13/21 14:00	05/13/21 17:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/13/21 14:00	05/13/21 17:03	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/13/21 11:33	05/13/21 19:01	1
GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/13/21 11:33	05/13/21 19:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/13/21 11:33	05/13/21 19:01	1
Oli Ralige Organics (Over 626-650)				malla		05/13/21 11:33	05/13/21 19:01	1
	<50.0	U	50.0	mg/Kg		05/15/21 11.55	03/13/21 19:01	1
Total TPH Surrogate	<50.0 %Recovery		50.0 Limits	ilig/Kg		Prepared	Analyzed	Dil Fac

l	o-Terphenyl	120		70 - 130			05/13/21 11:33	05/13/21 19:01	1
ſ	– Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	6440	F1	49.6	mg/Kg			05/17/21 10:26	10

Client Sample ID: SS02 Date Collected: 05/12/21 10:50 Date Received: 05/12/21 16:55

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/13/21 14:00	05/13/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/13/21 14:00	05/13/21 17:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/13/21 14:00	05/13/21 17:27	1

Lab Sample ID: 890-661-2

Matrix: Solid

Client Sample Results

Job ID: 890-661-1 SDG: 31403236.002.0129

Client Sample ID: SS02

Date Collected: 05/12/21 10:50 Date Received: 05/12/21 16:55

Sample Depth: - 0.5

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		05/13/21 11:33	05/13/21 19:22	1
Diesel Range Organics (Over C10-C28)	92.3		49.9	mg/Kg		05/13/21 11:33	05/13/21 19:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/13/21 11:33	05/13/21 19:22	1
Total TPH	92.3		49.9	mg/Kg		05/13/21 11:33	05/13/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/13/21 11:33	05/13/21 19:22	1
o-Terphenyl	118		70 - 130			05/13/21 11:33	05/13/21 19:22	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6550		49.8	mg/Kg			05/17/21 10:41	10

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-661-2 Matrix: Solid

5

Client: WSP USA Inc.

Project/Site: Remuda 500

Job ID: 890-661-1 SDG: 31403236.002.0129

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

latrix: Solid				Prep Type: Total/NA	
-				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-661-1	SS01	100	97		
890-661-2	SS02	105	99		6
Surrogate Legend					
BFB = 4-Bromofluoro	obenzene (Surr)				
DFBZ = 1,4-Difluorol	penzene (Surr)				

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

Matrix: Solid

-				
		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-661-1	SS01	102	120	
890-661-2	SS02	103	118	
LCS 880-3065/2-A	Lab Control Sample	50 S1-	57 S1-	
LCSD 880-3065/3-A	Lab Control Sample Dup	99	108	
MB 880-3065/1-A	Method Blank	109	132 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Prep Type: Total/NA

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

Lab Sample ID: MB 880-3065/1-A										Client Sa	mple ID: Me	ethod	Blank
Matrix: Solid											· Prep Typ		
Analysis Batch: 3067													: 3065
		мв	МВ										
Analyte	Re	esult	Qualifier	RL		Unit		D	Pr	epared	Analyzed		Dil Fac
Gasoline Range Organics	<	50.0	U			mg/K	a	_		3/21 11:33	05/13/21 11:		1
(GRO)-C6-C10						Ū	0						
Diesel Range Organics (Over	<	50.0	U	50.0		mg/K	g		05/13	3/21 11:33	05/13/21 11:	47	1
C10-C28)													
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0		mg/K	g		05/13	3/21 11:33	05/13/21 11:	47	1
Total TPH	<	50.0	U	50.0		mg/K	g		05/13	3/21 11:33	05/13/21 11:	47	• • • • •
		MВ	МВ										
Surrogate	%Reco	-	Qualifier	Limits						repared	Analyzed		Dil Fa
1-Chlorooctane		109		70 - 130						3/21 11:33	05/13/21 11		
o-Terphenyl		132	S1+	70 - 130					05/13	3/21 11:33	05/13/21 11	47	
								~		•			
Lab Sample ID: LCS 880-3065/2-/	A							C	lient	Sample	D: Lab Con		
Matrix: Solid											Prep Typ		
Analysis Batch: 3067											Prep	Batch	: 306
				Spike	LCS	LCS					%Rec.		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	846.2		mg/Kg			85	70 - 130		
(GRO)-C6-C10													
Diesel Range Organics (Over				1000	1085		mg/Kg			109	70 - 130		
C10-C28)													
	LCS	LCS											
Surrogate		Qua		Limits									
	<i>Junceovery</i>	Quu											
1_Chlorooctane	50	<u>S1-</u>											
		S1-		70 - 130									
		S1- S1-											
o-Terphenyl	57			70 - 130			CI	ient	Sam	nle ID: L	ab Control S	Samp	le Dur
o-Terphenyl Lab Sample ID: LCSD 880-3065/3	57			70 - 130			СІ	ient	Sam	ple ID: La	ab Control S		
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3065/3 Matrix: Solid	57			70 - 130			CI	ient	Sam	ple ID: La	Prep Ty	be: To	tal/NA
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3065/3 Matrix: Solid	57			70 - 130 70 - 130			CI	ient	Sam	ple ID: La	Prep Typ Prep	be: To	tal/NA : 3065
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067	57			70 - 130 70 - 130 Spike		LCSD		ient		-	Prep Typ Prep %Rec.	be: To Batch	tal/NA : 3065 RPD
o- <i>Terphenyl</i> Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte	57			70 - 130 70 - 130 Spike Added	Result	LCSD Qualifier	Unit	ient	Sam	%Rec	Prep Typ Prep %Rec. Limits	Batch	tal/NA : 3065 RPC Limi
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics	57			70 - 130 70 - 130 Spike				ient		-	Prep Typ Prep %Rec.	be: To Batch	tal/NA : 3065 RPC Limi
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10	57			70 - 130 70 - 130 Spike Added 1000	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	etal/NA : 3065 RPE Limi 20
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	57			70 - 130 70 - 130 Spike Added	Result		Unit	ient		%Rec	Prep Typ Prep %Rec. Limits	Batch	etal/NA : 3065 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	57			70 - 130 70 - 130 Spike Added 1000	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	etal/NA : 3065 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	57	S1-		70 - 130 70 - 130 Spike Added 1000	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	etal/NA : 3065 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	57 3-A <i>LCSD</i>	S1-		70 - 130 70 - 130 Spike Added 1000	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	etal/NA : 3065 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	57 3-A <i>LCSD</i>	S1-		70 - 130 70 - 130 Spike Added 1000	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	etal/NA : 3065 RPD Limit
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	57 B-A LCSD %Recovery	S1-		70 - 130 70 - 130 Spike Added 1000 1000	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	tal/NA : 3065 RPC Limi
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	57 B-A <i>LCSD</i> <i>%Recovery</i> 99 108	S1-	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4		- <mark>Unit</mark> mg/Kg	ient		%Rec	Prep Typ Prep %Rec. Limits 70 - 130	De: To Batch RPD 1	etal/NA : 306 RPI Limi 20
De-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane De-Terphenyl lethod: 300.0 - Anions, Ion (57 B-A %Recovery 99 108 Chromate	S1-	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4		- <mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	RPD 1 4	20000000000000000000000000000000000000
o-Terpheny/ Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ lethod: 300.0 - Anions, Ion (Lab Sample ID: MB 880-3096/1-A	57 B-A %Recovery 99 108 Chromate	S1-	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4		- <mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	RPD 1 4	Blanl
b-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane b-Terphenyl lethod: 300.0 - Anions, Ion (Lab Sample ID: MB 880-3096/1-A Matrix: Solid	57 B-A %Recovery 99 108 Chromate	S1-	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4		- <mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	RPD 1 4	Blanl
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion (Lab Sample ID: MB 880-3096/1-A Matrix: Solid	57 B-A %Recovery 99 108 Chromate	S1-	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4		- <mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	RPD 1 4	Blank
o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, Ion (Lab Sample ID: MB 880-3096/1-A Matrix: Solid	57 B-A %Recovery 99 108 Chromate	S1- LCS Qua	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4		- <mark>Unit</mark> mg/Kg	ient	<u>D</u>	%Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	RPD 1 4	Blank
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-3065/3 Matrix: Solid Analysis Batch: 3067 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion (Lab Sample ID: MB 880-3096/1-A Matrix: Solid Analysis Batch: 3152 Analyte	57 B-A <u>%Recovery</u> 99 108 Chromate	S1- LCS Qua	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 841.4 1039		- <mark>Unit</mark> mg/Kg	D	D	%Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	e: To Batch RPD 1 4	Blank

Job ID: 890-661-1 SDG: 31403236.002.0129

Eurofins Xenco, Carlsbad

Client: WSP USA Inc.

Project/Site: Remuda 500

QC Sample Results

Job ID: 890-661-1 SDG: 31403236.002.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3096/2-4 Matrix: Solid	k						Client	Sample	e ID: Lab Co Bron	ontrol Sa Type: So	
Analysis Batch: 3152									пер	Type. O	oluble
Analysis Batch. 0102			Spike	LCS	LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	242.6		mg/Kg		97	90 - 110		
- Lab Sample ID: LCSD 880-3096/3	- A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								· · · ·		Type: So	
Analysis Batch: 3152											
-			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	243.1		mg/Kg		97	90 - 110	0	20
- Lab Sample ID: 890-661-1 MS									Client Sa	mple ID:	SS01
Matrix: Solid										Type: So	
Analysis Batch: 3152											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	6440	F1	99200	9255	F1	mg/Kg		3	90 - 110		
Lab Sample ID: 890-661-1 MSD									Client Sa	mple ID:	SS01
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 3152											
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	6440	F1	99200	9275	F1	mg/Kg		3	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Project/Site: Remuda 500 Job ID: 890-661-1 SDG: 31403236.002.0129

GC VOA

Analysis Batch: 3051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-661-1	SS01	Total/NA	Solid	8021B	3053
890-661-2	SS02	Total/NA	Solid	8021B	3053
rep Batch: 3053					
rep Batch: 3053					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 890-661-1	SS01	Total/NA	Solid	5035	Prep Batch
	· · · · · · · · · · · · · · · · · · ·				Prep Batc

Prep Batch: 3065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-661-1	SS01	Total/NA	Solid	8015NM Prep	
890-661-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-3065/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3065/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3065/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-661-1		Total/NA	Solid	8015B NM	3065
890-661-2	SS02	Total/NA	Solid	8015B NM	3065
MB 880-3065/1-A	Method Blank	Total/NA	Solid	8015B NM	3065
LCS 880-3065/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3065
LCSD 880-3065/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3065

HPLC/IC

Leach Batch: 3096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-661-1	SS01	Soluble	Solid	DI Leach	
890-661-2	SS02	Soluble	Solid	DI Leach	
MB 880-3096/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3096/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3096/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-661-1 MS	SS01	Soluble	Solid	DI Leach	
890-661-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 3152

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-661-1	SS01	Soluble	Solid	300.0	3096
890-661-2	SS02	Soluble	Solid	300.0	3096
MB 880-3096/1-A	Method Blank	Soluble	Solid	300.0	3096
LCS 880-3096/2-A	Lab Control Sample	Soluble	Solid	300.0	3096
LCSD 880-3096/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3096
890-661-1 MS	SS01	Soluble	Solid	300.0	3096
890-661-1 MSD	SS01	Soluble	Solid	300.0	3096

Lab Chronicle

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

Client Sample ID: SS01

Date Collected: 05/12/21 10:45 Date Received: 05/12/21 16:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3053	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3051	05/13/21 17:03	MR	XM
Total/NA	Prep	8015NM Prep			3065	05/13/21 11:33	DM	XM
Total/NA	Analysis	8015B NM		1	3067	05/13/21 19:01	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	СН	XM
Soluble	Analysis	300.0		10	3152	05/17/21 10:26	SC	XM
Client Samp	le ID: SS02							Lab Sample ID: 890-661

Client Sample ID: SS02 Date Collected: 05/12/21 10:50 Date Received: 05/12/21 16:55

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3053	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3051	05/13/21 17:27	MR	XM
Total/NA	Prep	8015NM Prep			3065	05/13/21 11:33	DM	XM
Total/NA	Analysis	8015B NM		1	3067	05/13/21 19:22	AJ	XM
Soluble	Leach	DI Leach			3096	05/14/21 09:31	СН	XM
Soluble	Analysis	300.0		10	3152	05/17/21 10:41	SC	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

1 uge 43 0j /.

Matrix: Solid

Matrix: Solid

5

9

Job ID: 890-661-1

SDG: 31403236.002.0129

Lab Sample ID: 890-661-1

10

Job ID: 890-661-1 SDG: 31403236.002.0129

Laboratory: Eurofins Xenco, Midland

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

thority	Pr	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-20-21	06-30-21
the agency does not o		ut the laboratory is not certin	ied by the governing authority. This list ma	ay include analytes for t
0,		Matrix	Analyte	
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Remuda 500 Job ID: 890-661-1 SDG: 31403236.002.0129

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Remuda 500 Job ID: 890-661-1 SDG: 31403236.002.0129

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-661-1	SS01	Solid	05/12/21 10:45	05/12/21 16:55	- 0.5	
390-661-2	SS02	Solid	05/12/21 10:50	05/12/21 16:55	- 0.5	
						5
						8
						9
						1
						1

5	Mr.		Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of 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.	2021 1 Total 200.7 / 6010 Circle Method(s) a					SS02		SS01	Sample Identification	Sample Custody Seals	Cooler Custody Seals:	Temperature (°C): Received Intact:	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	Page 47	
		quished by: (Signature)	document and relinquia liable only for the cost narge of \$75.00 will be a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed)2				s: Yes	Yes No	3.613				31403	Re	(432) 236-3849	Midland, Tx 79705	3300 North A Street	WSP Permian office	Dan Moir		
			shment of of sample pplied to e)20: > bo and					v.		'n	Matrix	N/A	NA	1 S	Temp Blank:	Elliot Lee		31403236.002.0129	Remuda 500		5	eet	ffice			
	Acre (Received	samples const as and shall not each project an	∞					5/12/2021		5/12/2021	Date Sampled	Total	Correc		Yes No			.0129	00						Hobbs	
		Received by: (Signature)	itutes a valid p t assume any re d a charge of \$	8RCRA 13F TCLP/SP					10:50		10:45	Time Sampled	Total Containers:		Thermometer ID	Wet lee	Due Date	Rush:	Routine		Email:					Houston Midlan ,NM (575-392	
		ure)	urchase order f esponsibility fo 5 for each sam	RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA					C.U		0.5	Depth		10.2	19	(Ye) No	Date:		ne f	Turn Around	Email: Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com	City, State ZIP	Address:	Company Name:	Bill to: (if different)	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-6 <u>20-2000)</u>	
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	5-12-2	Date/Time	t company ies or exp tted to Xe	14 8					>	< ;	×	TPH (E	PA 80	15)							ı, Tacon	Carlsba	3104 e	XTO Energy	Kyle Littrell	Chain of Custody Dallas,TX (214) 902-0300 San Antonio,T) EL Paso,TX (915)585-3443 Lubbock.T (480-355-0900) Atlanta.GA (770-449-880	
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	-		ontractors. It assigns standard terms and conditions ch losses are due to circumstances beyond the contro ms will be enforced unless previously negotlated.							+					890-661 Chain of Custod			-			Deliverables: EDD	Reporting:Level II	State	Program: UST/PST		-2000)	
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Released to Imaging: 6/8/2022 11:30:45 AM

5/18/2021

Received by OCD: 7/12/2021 1:04:20 PM

Eurotins Xenco. Carlshad		1	1																									
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Phone 575-988-3199 Fax 575-988-3199										1		4							Į	1		1			l			
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	er Jes	Jessica			1	1	1	0	Carrier Tracking No(s):	Tracki	ng No)(s):		l	<u> </u>	COC No: 890-21	COC No: 890-216 1		1				l	-
Client Contact: Shipping/Receiving	Phone:		No. 1	E-Mail: Jessic	8	ner@	eurof	inset	com			ZØ	State of Origin: New Mexico	Origi	0				ᆕᆕ	Page: Page	Page: Page 1 of 1	<u>-</u>						
Company Eurofins Xenco					Accreditations Required (See note NELAP - Louisiana, NELAP	reditations Required (See not	Requi	na (S	ELAI	, ®) - Texas]				<u>_</u>	Job #	Job #: 890-661-1	<u>~</u>			[
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Phone 432-704-5440(Tel)	PO#					трн	ie									······································		alar (paja) alar	te-padda	- - 	Amchlor	59	ï	רכ וא דידי	12SO	÷ö		-
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Project Name: Remuda 500	Project #: 89000004				and for low one	_S_Pro	EACH	EX						<u>.</u>				Sandrard	Millerity		EDTA EDA			N≷	pH 4-5 other (specify)	5 specif	Ś	
Site:	SSOW#:					015NM	BD/DI_L	Calc B												Other:	7							
		<u>}</u>	Sample Type	Matrix (^{W=water} ^{S=solid}	l Filtered : orm MS/M	MOD_NM/8	ORGFM_28	B/5036FP_										n. 27 Mar. 107 Mar. 2007	l Number					1				
Sample Identification - Client ID (Lab ID)	Sample Date	345		<u>ع</u>		801	300	802		-	-	_				1	40 5		То		sp	ecia	d Ins	struc	Special Instructions/Note	S/Nc	Ĭ.	
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Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership being analyzed the si arm the signed Chain o	of method, an amples must b of Custody atte	alyte & accredii e shipped back sting to said co	tation complian to the Eurofina mplicance to E	ce upon Xenco urofins	LLC la	ibcont LLC.	ny or o	borato other i	ries. 1struc	This s tions v	ample vill be) shipr	nenti ded v	s forw	ardeo 1ange	s to a	iccrei	ain-oi ditatic	f-cust on sta	ìody atus s	If the hould	1 labor 1 be b	atory rough	does It to E	not c urofir	urren 1s Xei	nco
Possible Hazard Identification Unconfirmed					Sai	Sample Disposal (A fee may be assessed if samples are retained longer	ple Disposal (A fi []] Return To Client	osal To C	(Afi lient	ee m	ay b	⊔eas Di	assessed if san Disposal By Lab	ed ii Bv	san	1ple			aine	tained long Archive For	or ge	r th	an 1	than 1 month) Mont	onth) Months	7		
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Custody Seals Intact Custody Seal No ∆ Yes ∆ No						Coole	Cooler Temperature(s) °C and Other Remarks.	oeratu	re(s)°	Cand	Othe	r Ren	ıarks.											l F				

Ver 11/01/2020

13

Job Number: 890-661-1

SDG Number: 31403236.002.0129

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 661 List Number: 1 Creator: Clifton, Cloe

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	

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

Job Number: 890-661-1

SDG Number: 31403236.002.0129

List Source: Eurofins Midland

List Creation: 05/13/21 02:08 PM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 661 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").

Received by OCD: 7/12/2021 1:04:20 PM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-679-1

Laboratory Sample Delivery Group: 31403236.002.0129 Client Project/Site: Remuda 500 (4-15-21)

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 5/21/2021 3:20:13 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.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

Released to Imaging: 6/8/2022 11:30:45 AM

Laboratory Job ID: 890-679-1 SDG: 31403236.002.0129

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QC Association Summary	11
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Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
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2

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21)

SDG: 31403236.002.0129

Job ID: 890-679-1

1.0

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA	Α	5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	4 4
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	R
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin)

MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent

POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive

QC **Quality Control** RER

Relative Error Ratio (Radiochemistry) Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-679-1 SDG: 31403236.002.0129

Job ID: 890-679-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-679-1

Comments

No additional comments.

Receipt

The samples were received on 5/17/2021 12:57 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

GC VOA

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

GC Semi VOA

Method 8015B NM: Manual integration was performed on the following sample: BH02A (890-679-3). The oil range detections in these samples was the result of baseline rise and was not an actual indication of oil range hydrocarbons.

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.

4

5

Page 54 of 73

Project/Site: Remuda 500 (4-15-21)

Job ID: 890-679-1 SDG: 31403236.002.0129

Client Sample ID: BH01

Client: WSP USA Inc.

Client Sample ID: BH01 Date Collected: 05/17/21 10:38 Date Received: 05/17/21 12:57 Sample Depth: - 2						Lab Sa	ample ID: 890 Matrix)-679-1 ix: Solid
Method: 8021B - Volatile Organic					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene		U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 20:58	1
	<0.00200		0.00200	mg/Kg		05/18/21 10:27	05/18/21 20:58	1
Ethylbenzene	<0.00200		0.00200	mg/Kg		05/18/21 10:27	05/18/21 20:58	1
m-Xylene & p-Xylene	<0.00400		0.00400	mg/Kg		05/18/21 10:27	05/18/21 20:58	•
o-Xylene	<0.00200		0.00200	mg/Kg		05/18/21 10:27	05/18/21 20:58	1
Xylenes, Total	<0.00400		0.00400	mg/Kg		05/18/21 10:27	05/18/21 20:58	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/18/21 10:27	05/18/21 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/18/21 10:27	05/18/21 20:58	1
1,4-Difluorobenzene (Surr)	117		70 - 130			05/18/21 10:27	05/18/21 20:58	1
- Method: 8015B NM - Diesel Range	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:08	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:08	1
Total TPH	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/18/21 11:59	05/18/21 15:08	1
o-Terphenyl	110		70 - 130			05/18/21 11:59	05/18/21 15:08	1
Method: 300.0 - Anions, Ion Chror	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	786		4.99	mg/Kg			05/20/21 14:47	1
- Client Sample ID: BH02						Lah S:	ample ID: 890	1-679-2
Date Collected: 05/17/21 10:56						Luv Cu		ix: Solid
Date Received: 05/17/21 12:57								A. Oona
Sample Depth: - 1								
_								
Sample Depth: - 1 Method: 8021B - Volatile Organic Analyte		(GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/18/21 10:27	05/18/21 21:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/18/21 10:27	05/18/21 21:19	1
1,4-Difluorobenzene (Surr)	119		70 - 130			05/18/21 10:27	05/18/21 21:19	1

Released to Imaging: 6/8/2022 11:30:45 AM

Job ID: 890-679-1 SDG: 31403236.002.0129

Lab Sample ID: 890-679-2

Lab Sample ID: 890-679-3

Matrix: Solid

Client Sample ID: BH02

Project/Site: Remuda 500 (4-15-21)

Date Collected: 05/17/21 10:56 Date Received: 05/17/21 12:57

Sample Depth: -1

Client: WSP USA Inc.

•	e Organics (D							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:30	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:30	1
Total TPH	<49.8	U	49.8	mg/Kg		05/18/21 11:59	05/18/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			05/18/21 11:59	05/18/21 15:30	1
o-Terphenyl	109		70 - 130			05/18/21 11:59	05/18/21 15:30	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4110		24.8	mg/Kg			05/20/21 14:52	5

Client Sample ID: BH02A

Date Collected: 05/17/21 11:04 Date Received: 05/17/21 12:57 Sample Depth: - 3

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
Xylenes, Total	< 0.00402	U	0.00402	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/18/21 10:27	05/18/21 21:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/18/21 10:27	05/18/21 21:39	1

1,4-Difluorobenzene (Surr)	118		70 - 130			05/18/21 10:27	05/18/21 21:39	1
- 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		05/18/21 11:59	05/18/21 15:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/21 11:59	05/18/21 15:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/21 11:59	05/18/21 15:52	1
Total TPH	<49.9	U	49.9	mg/Kg		05/18/21 11:59	05/18/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/18/21 11:59	05/18/21 15:52	1
o-Terphenyl	107		70 - 130			05/18/21 11:59	05/18/21 15:52	1

Method: 300.0 - Anions, Ion Chrom	hatography - 3	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.95	mg/Kg			05/20/21 14:57	1

Eurofins Xenco, Carlsbad

Matrix: Solid

5

Surrogate Summary

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21) Job ID: 890-679-1 SDG: 31403236.002.0129

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix. Solid	Μ	atrix:	So	lid
---------------	---	--------	----	-----

_				Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)		5
890-679-1	BH01	103	117	·	
890-679-2	BH02	105	119		6
890-679-3	BH02A	97	118		
LCS 880-3202/1-A	Lab Control Sample	89	105		
LCSD 880-3202/2-A	Lab Control Sample Dup	95	112		
MB 880-3202/5-A	Method Blank	81	74		8
Surrogate Legend					
BFB = 4-Bromofluoroben	zene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid				Prep Type: Total/NA	
_		4004	OTDUA	Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)		
890-679-1	BH01	103	110	·	
890-679-2	BH02	98	109		
890-679-3	BH02A	101	107		
LCS 880-3210/2-A	Lab Control Sample	102	98		
LCSD 880-3210/3-A	Lab Control Sample Dup	105	97		
MB 880-3210/1-A	Method Blank	112	105		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 3203

Analysis Batch: 3203							Prep Bato	:h: 3202
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/18/21 10:27	05/18/21 14:01	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			05/18/21 10:27	05/18/21 14:01	1
1,4-Difluorobenzene (Surr)	74		70 - 130			05/18/21 10:27	05/18/21 14:01	1

Lab Sample ID: LCS 880-3202/1-A Matrix: Solid

Analysis Batch: 3203

5	Spike	LCS	LCS				%Rec.	
Analyte A	dded	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07277		mg/Kg		73	70 - 130	
Toluene	0.100	0.08570		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08586		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene (0.200	0.1714		mg/Kg		86	70 ₋ 130	
o-Xylene (0.100	0.08545		mg/Kg		85	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-3202/2-A Matrix: Solid

Analysis Batch: 3203										p Batch	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.07593		mg/Kg		76	70 - 130	4	35
Toluene			0.100	0.08310		mg/Kg		83	70 - 130	3	35
Ethylbenzene			0.100	0.08699		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1704		mg/Kg		85	70 - 130	1	35
o-Xylene			0.100	0.08637		mg/Kg		86	70 - 130	1	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3202

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

3202

D	%Rec	Limits	RPD	Limit
	76	70 - 130	4	35
	83	70 - 130	3	35
	87	70 - 130	1	35
	85	70 - 130	1	35

Job ID: 890-679-1

Prep Type: Total/NA

5

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SDG: 31403236.002.0129

Client Sample ID: Method Blank

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21)

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

Maded to a line	I- A									Client Sa	mple ID: M		
Matrix: Solid											Prep Ty		
Analysis Batch: 3205		мв	мв								Prep	Batc	h: 3210
Analyte			Qualifier		RL	Unit		D	Pr	repared	Analyze	h	Dil Fa
Gasoline Range Organics			U		0.0			_		B/21 11:59	05/18/21 1		
(GRO)-C6-C10		50.0	0	0	0.0	ing/i	•9		00/10	0/21 11:00	00,10,211	2.00	
Diesel Range Organics (Over	<5	50.0	U	5	0.0	mg/ł	ζg		05/18	8/21 11:59	05/18/21 1	2:58	
C10-C28)													
Oll Range Organics (Over C28-C36)		50.0		5	0.0	mg/ł			05/18	8/21 11:59	05/18/21 1	2:58	
Total TPH	<5	50.0	U	5	0.0	mg/ł	ξg		05/18	8/21 11:59	05/18/21 1	2:58	
		ΜВ	МВ										
Surrogate	%Recov	very	Qualifier	Limits					Pi	repared	Analyze	ed	Dil Fa
1-Chlorooctane		112		70 - 13	0				05/1	8/21 11:59	05/18/21 1		
o-Terphenyl		105		70 - 13	0				05/1	8/21 11:59	05/18/21 1	2:58	
Lab Sample ID: LCS 880-3210/	/2-A							С	lient	Sample	ID: Lab Co		
Matrix: Solid											Prep Ty		
Analysis Batch: 3205												Batc	h: 321
				Spike	LCS	LCS					%Rec.		
Analyte				Added		Qualifier	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics				1000	873.5		mg/Kg			87	70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over				1000	1084		mg/Kg			108	70 - 130		
C10-C28)				1000	1004		mg/rtg			100	70 - 150		
,													
	LCS												
Surrogate	%Recovery	LCS Qual	lifier	Limits									
Surrogate	%Recovery 102		lifier	70 - 130									
Surrogate	%Recovery		lifier										
Surrogate 1-Chlorooctane o-Terphenyl	% Recovery 102 98		lifier	70 - 130			CI	ent	Sam	ple ID: L	ab Control	Samr	ole Du
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321	% Recovery 102 98		lifier	70 - 130			Cli	ent	Sam	ple ID: La	ab Control Prep Ty		
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid	% Recovery 102 98		lifier	70 - 130			Cli	ent	Sam	ple ID: La	Prep Ty	ype: T	otal/N
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid	% Recovery 102 98		lifier	70 - 130	LCSD	LCSD	Cli	ent	Sam	ple ID: Li	Prep Ty	ype: T	otal/N h: 321
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205	% Recovery 102 98		lifier	70 - 130 70 - 130		LCSD Qualifier	Cli	ent	Sam	ple ID: La %Rec	Prep Ty Prep	ype: T	otal/N h: 321 RP
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte	% Recovery 102 98		lifier	70 - 130 70 - 130 Spike				ent		-	Prep Ty Prep %Rec.	ype: To Batc	otal/N h: 321 RP Lim
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics	% Recovery 102 98		lifier	70 - 130 70 - 130 Spike Added	Result		Unit	ent		%Rec	Prep Ty Prep %Rec. Limits	pe: To Batc RPD	otal/N h: 321 RP Lim
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	% Recovery 102 98		lifier	70 - 130 70 - 130 Spike Added	Result		Unit	ent		%Rec	Prep Ty Prep %Rec. Limits	pe: To Batc RPD	otal/N h: 321 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	% Recovery 102 98		lifier	70 - 130 70 - 130 Spike Added 1000	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	ype: To Batc RPD	otal/N h: 321 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	% Recovery 102 98	Qual		70 - 130 70 - 130 Spike Added 1000	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	ype: To Batc RPD	otal/N h: 321 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 102 98 0/3-A	Qual		70 - 130 70 - 130 Spike Added 1000	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	ype: To Batc RPD	otal/N h: 321 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery 102 98 0/3-A	Qual		70 - 130 70 - 130 Spike Added 1000	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	ype: To Batc RPD	otal/N/ h: 321 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	%Recovery 102 98 0/3-A LCSD	Qual		70 - 130 70 - 130 Spike Added 1000 1000	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	ype: To Batc RPD	otal/N h: 321 RP Lim
Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl	%Recovery 102 98 0/3-A 	Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep %Rec. Limits 70 - 130	ype: To Batc RPD 3	otal/N h: 321 RF
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl lethod: 300.0 - Anions, lo	%Recovery 102 98 0/3-A %Recovery 105 97 n Chromato	Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u>	%Rec 90 110	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	ype: To Batc RPD 3 1	otal/N h: 321 RF
Surrogate 1-Chlorooctane b-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane b-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-3234/1	%Recovery 102 98 0/3-A %Recovery 105 97 n Chromato	Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u>	%Rec 90 110	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	Aethoo	otal/N h: 321 RF
Surrogate 1-Chlorooctane b-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane b-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-3234/1 Matrix: Solid	%Recovery 102 98 0/3-A %Recovery 105 97 n Chromato	Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u>	%Rec 90 110	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	Aethoo	otal/N h: 321 RP Lim 2
Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl lethod: 300.0 - Anions, lo Lab Sample ID: MB 880-3234/1 Matrix: Solid	%Recovery 102 98 0/3-A %Recovery 105 97 n Chromato	Qual LCSI Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 900.4		_ <mark>Unit</mark> mg/Kg	ent	<u>D</u>	%Rec 90 110	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	Aethoo	otal/N h: 321 RP Lim 2 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-321 Matrix: Solid Analysis Batch: 3205 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery 102 98 0/3-A	Qual LCS Qual Ogra	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130	Result 900.4		_ <mark>Unit</mark> mg/Kg mg/Kg	D	<u>D</u>	%Rec 90 110	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130	ype: To Batcl RPD 3 1 1 Method	otal/N h: 321 RP Lim 2 2

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Job ID: 890-679-1

SDG: 31403236.002.0129

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21) Job ID: 890-679-1 SDG: 31403236.002.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3234/2-A Matrix: Solid					Client	t Sample	ID: Lab Co Prep	ontrol S Type: S	
Analysis Batch: 3256	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	252.9		mg/Kg		101	90 - 110		
– Lab Sample ID: LCSD 880-3234/3-A				Clier	nt San	nple ID: I	Lab Contro	l Sampl	e Dup
Matrix: Solid						·	Prep	Type: S	oluble
Analysis Batch: 3256									
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21)

Client Sample ID

BH01

BH02

BH02A

BH01

BH02

BH02A

Method Blank

Lab Control Sample

Client Sample ID

BH01

BH02

BH02A

Method Blank

Lab Control Sample

Lab Control Sample Dup

Lab Control Sample Dup

Method Blank

Lab Control Sample

Client Sample ID

Lab Control Sample Dup

GC VOA

890-679-1

890-679-2

890-679-3

MB 880-3202/5-A

LCS 880-3202/1-A

LCSD 880-3202/2-A

Lab Sample ID

MB 880-3202/5-A

LCS 880-3202/1-A

LCSD 880-3202/2-A

GC Semi VOA

Lab Sample ID

890-679-1

890-679-2

890-679-3

Analysis Batch: 3205

890-679-1

890-679-2

890-679-3

Analysis Batch: 3203

Prep Batch: 3202 Lab Sample ID

Prep Batch

Prep Batch

3202

3202

3202

3210

3210

3210

Job ID: 890-679-1 SDG: 31403236.002.0129

Method

5035

5035

5035

5035

5035

5035

Method

8021B

8021B

8021B

8021B

8021B

8015B NM

8015B NM

8015B NM

3202	
3202	
3202	

Total/NA	Solid	8021B	3202
 Prep Type	Matrix	Method	Prep Batch
 Total/NA	Solid	8015B NM	3210
Total/NA	Solid	8015B NM	3210
Total/NA	Solid	8015B NM	3210

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

LCS 880-3210/2-A
LCSD 880-3210/3-A

MB 880-3210/1-A

Prep Batch: 3210	Pre	ρВ	atcl	h: 3	210
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Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-679-1	BH01	Total/NA	Solid	8015NM Prep	
890-679-2	BH02	Total/NA	Solid	8015NM Prep	
890-679-3	BH02A	Total/NA	Solid	8015NM Prep	
MB 880-3210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-679-1	BH01	Soluble	Solid	DI Leach	
890-679-2	BH02	Soluble	Solid	DI Leach	
890-679-3	BH02A	Soluble	Solid	DI Leach	
MB 880-3234/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3234/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3234/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
Analysis Batch: 3256					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-679-1	BH01	Soluble	Solid	300.0	3234
890-679-2	BH02	Soluble	Solid	300.0	3234
890-679-3	BH02A	Soluble	Solid	300.0	3234

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Released to Imaging: 6/8/2022 11:30:45 AM

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QC Association Summary

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21) Job ID: 890-679-1 SDG: 31403236.002.0129

HPLC/IC (Continued)

Analysis Batch: 3256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3234/1-A	Method Blank	Soluble	Solid	300.0	3234
LCS 880-3234/2-A	Lab Control Sample	Soluble	Solid	300.0	3234
LCSD 880-3234/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3234

Project/Site: Remuda 500 (4-15-21)

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Job ID: 890-679-1 SDG: 31403236.002.0129

Lab Sample ID: 890-679-1 Matrix: Solid

Lab Sample ID: 890-679-2

Lab Sample ID: 890-679-3

Matrix: Solid

Matrix: Solid

Date Collected: 05/17/21 10:38 Date Received: 05/17/21 12:57

Client Sample ID: BH01

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3202	05/18/21 10:27	KL	XEN MID
Total/NA	Analysis	8021B		1	3203	05/18/21 20:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			3210	05/18/21 11:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3205	05/18/21 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			3234	05/19/21 09:37	СН	XEN MID
Soluble	Analysis	300.0		1	3256	05/20/21 14:47	СН	XEN MID

Client Sample ID: BH02 Date Collected: 05/17/21 10:56

Date Received: 05/17/21 12:57

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3202	05/18/21 10:27	KL	XEN MID
Total/NA	Analysis	8021B		1	3203	05/18/21 21:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			3210	05/18/21 11:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3205	05/18/21 15:30	AJ	XEN MID
Soluble	Leach	DI Leach			3234	05/19/21 09:37	СН	XEN MID
Soluble	Analysis	300.0		5	3256	05/20/21 14:52	СН	XEN MID

Client Sample ID: BH02A

Date Collected: 05/17/21 11:04 Date Received: 05/17/21 12:57

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3202	05/18/21 10:27	KL	XEN MID
Total/NA	Analysis	8021B		1	3203	05/18/21 21:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			3210	05/18/21 11:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3205	05/18/21 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			3234	05/19/21 09:37	СН	XEN MID
Soluble	Analysis	300.0		1	3256	05/20/21 14:57	СН	XEN MID

Laboratory References:

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

10

Job ID: 890-679-1 SDG: 31403236.002.0129

Laboratory: Eurofins Xenco, Midland

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

ority	Pi	ogram	Identification Number	Expiration Date
s	N	ELAP	T104704400-20-21	06-30-21
he following analytes	are included in this report, but	it the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for v
ne agency does not o nalysis Method	fer certification. Prep Method	Matrix	Analyte	
ne agency does not o nalysis Method 015B NM		Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21) Job ID: 890-679-1 SDG: 31403236.002.0129

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Remuda 500 (4-15-21) Job ID: 890-679-1 SDG: 31403236.002.0129

ab Sample ID.	Client Sample ID	Matrix	Collected	Received	Depth	
90-679-1	BH01	Solid	05/17/21 10:38	05/17/21 12:57	- 2	
90-679-2	BH02	Solid	05/17/21 10:56	05/17/21 12:57	- 1	
90-679-3	BH02A	Solid	05/17/21 11:04	05/17/21 12:57	- 3	
						1

Revised Date 051418 Rev. 2018		0	0				U
		4	5.10.21 12.26	V.	(the)	211	3 N. Mar
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	te/Time		Received by: (Signature)	Signature)	Relinquished by: (Signature)
	ances beyond the control aviously negotiated.	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.	sses or expenses incurred mitted to Xenco, but not ana	sponsibility for any lo for each sample sub	s and shall not assume any reach project and a charge of \$5	e only for the cost of sample of \$75.00 will be applied to e	of service. Xenco will be lial of Xenco. A minimum charg
	actors. It assigns standard terms and conditions	filiates and subcontractors. It assigns standa	ent company to Xenco, its a	rchase order from cli	s constitutes a	ument and relinguishment of a	Notice: Signature of this doc
Na Sr Ti Sn U V Zn 1 031/243.1/7470 /7471.Hg	Ni K Se Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mg <u>Cr Co Cu Pb Mn Mo Ni Se</u>	Al Sb As Ba Be B A Sb As Ba Be Cd	Texas 11 010: 8RCR	8RCRA TCLP	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) a
				-f			
					ALA		
					2		
							/
Discrete			X X ×	3	5/17/2021 11:04	S	BH02A
Discrete			XX×	1	5/17/2021 10:56	S	BH02
Discrete			X X ×	2 1	5/17/2021 10:38	S	BH01
Sample Comments			TPH (E BTEX (Chlorid	Depth	Date Time Sampled Sampled	cation Matrix	Sample Identification
lab, if received by 4:30pm			PA 80	er of	Total Containers:	No	Sample Custody Seals:
TAT starts the day recevied by the		_	015) 0=8(16,7 C	Correction Factor:	Yes NO NA	Cooler Custody Seals:
		890-679 Chain of Custody	021)		T-NM-007	(Yes) No	Received Intact:
					Thermometer ID	3:2/3,0	Temperature (°C):
				res No	Yes No Wet Ice:	T Temp Blank:	SAMPLE RECEIPT
				ate:	ther Due Date:	William Mather	Sampler's Name:
Cost Center: 1067601001	Cost				Rush:	Eddy	P.O. Number:
Incident ID: nAPP2111852118	Incid			ē R	0129 Routine	31403236.002.0129	Project Number:
Work Order Notes		ANALYSIS REQUEST		Turn Around		Remuda 500 (4-15-21)	Project Name:
Other	Deliverables: EDD ADaP1	Delive	m, dan.moir@wsp.com	will.mather@wsp.com	Email:	(432) 236-3849	Phone: (4
	evel III	Repor		City, State ZIP:		Midland, Tx 79705	City, State ZIP: M
	H H	Sta		Address:		3300 North A Street	Address: 30
TRC Derfund	Program: UST/PSTRPrownfields	Progr	XTO Energy, Inc.	Company Name:		WSP USA Inc., Permian office	
nents	Work Order Comments		Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager: D
Page 1 of 1	www.xenco.com	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	480-355-0900) Atlanta,G	7550) Phoenix,AZ	Hobbs,NM (575-392-		LAB
		 San Antonio, TX (210) 509-3334 Lubbock TX (806)794-1296 	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio. TX (2 Midland TX (432, 704-6440) El Baso TX (315)585-3443 Lubbock TX (80	TX (281) 240-4200	Houston,		X
	Work Order No:	ıstody	Chain of Custody				

Received by OCD: 7/12/2021 1:04:20 PM



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Received by OCD: 7/12/2021 1:04:20 PM

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/bests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. State Zip TX, 79701 Empty Kit Relinquished by Deliverable Requested | II III IV Other (specify) BH02A (890-679-3) BH02 (890-679-2) Possible Hazard Identification BH01 (890-679-1) Sample Identification - Client ID (Lab ID) telinquished by Remuda 500 (4-15-21) 432-704-5440(Tel) Midland 1211 W Florida Ave Shipping/Receiving Client Information (Sub Contract Lab) Phone 575-988-3199 Fax: 575-988-3199 Carlsbad NM 88220 elinquished by elinquished by Eurofins Xenco roject Name Custody Seals Intact ∆ Yes ∆ No nconfirmed lient Contact: R Ę Custody Seal No F たり Phone: Date/Time Date/Time Primary Deliverable Rank. 2 PO #: Due Date Requested 5/21/2021 Date/Time SSOW# 89000004 WO # TAT Requested (days): Sampler Sample Date oject # 5/17/21 5/17/21 5/17/21 Chain of Custody Record Mountain 11 04 Mountain 10 56 Date Mountain Sample 10 38 lime G=grab (C=comp, Sample Preservation Code: Туре BT=Tissue, A=Air Company Company Company O=waste/oil, (W=water S=soild Matrix Solid Solid Solid E-Mail Kramer Jessica Lab PM essica kramer@eurofinset.com Time Field Filtered Sample (Yes or No) Accreditations Required (See note) NELAP - Louisiana NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mont Special Instructions/QC Requirements Perform MS/MSD (Yes or No) Cooler Temperature(s) °C and Other Remarks Received by Received by × × × 8016MOD_NM/8016NM_S_Prep Full TPH × × × 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc BTEX × × × Analysis Requested State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Ŗ Date/Time Jate Total Number of containers a seurofins COC No: 890-219 1 Otherх ΙG ™ΠCΩ⇒ I Ice J DI Water K EDTA - EDA Preservation Codes Page 1 of 1 390-679-1 age D Nitric Acid NaHSO4 MeOH Ascorbic Acid NaOH Amchior Special Instructions/Note 3 M Hexane N None O - AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 N ≦ < ⊂ чоπо Company Company Company America **Environment Testing** Acetone MCAA H2SO4 TSP Dodecahydrate other (specify) PH 4-5 Months

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Eurofins Xenco, Carlsbad

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1089 N Canal St.

Image: Strange in Strange i	4 5 6 7 8 9 10 11 12 13 14
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Client Contact: Shipping/Receiving	Phone			E-Mail jessic	E-Mail jessica kramer@eurofinset com	n@euro	ofinset of	â		State	State of Origin New Mexico	8 =			ত ত	Page: Page 1 of 1	-				
Company Eurofins Xenco					Accreditations Required (See r NELAP - Louisiana NEL	ons Requ	ana NE	AP -	^{note)} AP - Texas	ŀ					<u>ه د</u>	Job #: 890-679-1	<u> </u>				
Address. 1211 W Florida Ave	Due Date Requested 5/21/2021	ed.						Analy	nalvsis Requested	oue	fed				–	eserva	Preservation Codes	les			
City Midland	TAT Requested (days)	ays)			transfi N Sarafi							_				A HCL B-NaOH		ZZ	Hexane None		
State, Zip [.] TX, 79701					<u>delansian</u> Juli madallati										ΠΟΟ	Zn Acetate Nitric Acid NaHSO4	vcid	ото zz≥	AsNaO2 Na2O4S		
Phone 432-704-5440(Tel)	PO#				9.2							<u>.</u> .			G⊓⊓		Y		a2S2O3 2SO4		
Email	WO #:				lo)	_									<u></u>		Ascorbic Acid Ce DI Water		Acetone	I SP Dodecahydrate Acetone MCAA	te
Project Name: Remuda 500 (4-15-21)	Project #: 89000004				es or		TEX								tainer	EDTA			pH 4-5 other (specify)	cify)	
Sile	SSOW#:				ISD (Y		Caic B								Marthe AS	Other [.]					
			Sample Type	Matrix (W=water	Filtered rm MS/I	OD_NM/ RGFM_2	/6036FP							2 - W The Logica	Vumber						
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air)	Per		802 [,]								Tota	sp	pecial Instructions/Note:	struct	lions/h	lote:	
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rossible nazard identification Unconfirmed					Samp	Return	Sample Disposal (A f		hay be	assessed if san Disposal By Lab	sal Ru	r sam	oles a	⊔re reta	tained long Archive For	fee may be assessed if samples are retained longer	r than 1	B	nth)		
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Relinquished by	Date/Time:			Company		Received by	0	N				D,	Date/Time		E			Company	any		
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Custody Seals Intact. Custody Seal No ∆ Yes ∆ No					2	ooler Terr	Cooler Temperature(s)) ဂိ	and Other Remarks.	Remark	, o										
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Eurofins Xenco, Carlsbad

13

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 679 List Number: 1 Creator: Ordonez, Gabby

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	

N/A

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

14

Job Number: 890-679-1

SDG Number: 31403236.002.0129

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

9-1 29

List Creation: 05/18/21 11:11 AM

List Source: Eurofins Xenco, Midland

14

	Job Number: 890-679
SDG N	lumber: 31403236.002.01

Login Number: 679 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").

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	23252
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	6/8/2022

CONDITIONS

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Action 23252