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

Page 1 of 68

Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2110947284
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

-103.92790

32.13318 Latitude

Site Name PLU 18 BD West Battery	Site Type Tank Battery
Date Release Discovered 04/05/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
Е	18	258	30E	Eddy

Surface Owner: State 🗵 Federal 🗌 Tribal 🗌 Private (Name: _

Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
× Produced Water	Volume Released (bbls) 8.01	Volume Recovered (bbls) 8.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Fluids recover	were released from an elbow connection on the water line red standing fluids. A third-party contractor has been re	ne into containment and onto ground. A vacuum truck etained for remediation activities.

Page 2

NA

Oil Conservation Division

Incident ID	NAPP2110947284
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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
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

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

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

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

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

If all the actions described above have <u>not</u> been undertaken, explain why:

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

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

Printed Name:	Title:
Signature: Advian Dato	Date:
adrian.baker@exxonmobil.com	Telephone:
	·
OCD Only	
Received by: <u>Ramona Marcus</u>	Date: <u>5/9/2021</u>

Location:	PLU 18 BD West Battery	-	
Spill Date:	4/5/2021		
	Area 1		
Approximate A	rea =	45.00	cu. ft.
n 1	VOLUME OF LEAK		
Total Produced	Water =	8.00	bbls
	Area 2		
Approximate A	rea =	4.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.50	inches
Average Porosi	ty Factor =	0.20	
	VOLUME OF LEAK		
Total Produced	Water =	0.01	bbls
	TOTAL VOLUME OF LEAK		
Total Produced	Water =	8.01	bbls
	TOTAL VOLUME RECOVERED	~	
Total Produced	Water =	8.00	bbls

Received by OCD: 7/1/2021 10:51:52 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of 6	8
Incident ID	NAPP2110947284	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

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

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

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

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

Field data

Data table of soil contaminant concentration data

- Depth to water determination
- Determination of water sources and significant watercourses within 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: 7/1/2021	<i>10:51:52 AM</i> State of New Mexico			Page 5 of 6
			Incident ID	NAPP2110947284
Page 4	Oil Conservation Divisio	n	District RP	
			Facility ID	
			Application ID	
regulations all operators are republic health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Signature:	nation given above is true and complete to equired to report and/or file certain release is ent. The acceptance of a C-141 report by the te and remediate contamination that pose a a C-141 report does not relieve the operator Adrian Baker Adrian Baker Com Com Com Com Com Com Com Com Com Com	notifications and perform co the OCD does not relieve the threat to groundwater, surfa r of responsibility for comp Title: _Environmen Date:06/29/20	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

Oil Conservation Division

Incident ID	NAPP2110947284
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Facility ID	
Application 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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: _____ Adrian Baker ______Title: ___Environmental Coordinator Signature: _____ Date: _____ Date: ______ Telephone: 432-221-7331 email: _____ Adrian Baker@exxonmobil.com **OCD Only** Received by: Date: _____ Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: _____ Title: Printed Name:

Page 6

Oil Conservation Division

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following iten	ns 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 must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC D	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain re- may endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remech human health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the condi- accordance with 19.15.29.13 NMAC including notification to the OCI Printed Name: <u>Adrian Baker</u>	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, c-141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in D when reclamation and re-vegetation are complete.
Signature: Bajos D	late:06/29/2021
email:Adrian_Baker@exxonmobil.com	Telephone:432-221-7331
OCD Only	
Received by: <u>Robert Hamlet</u>	Date: <u>9/23/2021</u>
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>9/23/2021</u>
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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 PLU 18 BD West Battery Incident Number NAPP2110947284 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 Poker Lake Unit (PLU) 18 BD West Battery (Site) in Unit E, Section 18, Township 25 South, Range 30 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 NAPP2110947284.

RELEASE BACKGROUND

On April 5, 2021, fluids were released from an elbow connection on the produced water line. Approximately 8.01 barrels (bbls) of produced water released into lined containment and onto the caliche well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 8.00 bbls of produced water were recovered from within the lined containment. Approximately 0.01 bbls of produced water impacted the well pad outside of the containment. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 19, 2021. The release was assigned Incident Number NAPP2110947284.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During January 2021, WSP installed a soil boring (C-4529) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4529 was drilled to a depth of 101 feet bgs. A WSP



District II Page 2

geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The location of the borehole is on Site in the northwest corner of the pad (approximately 0.02 miles northwest of the release extent) and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an ephemeral, intermittent riverine, located approximately 3,884 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT, SOIL SAMPLING ACTIVITIES, AND ANALYTICAL RESULTS

On April 21, 2021, WSP personnel visited the Site to evaluate the release location based on information provided on the Form C-141 and visual observations. WSP personnel collected one preliminary assessment soil sample (SSO1) within the release area outside of the lined containment 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 sample was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release location and preliminary soil sample location were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.



District II Page 3

The preliminary soil sample was placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil sample was 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 sample SS01 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 June 16, 2021, WSP personnel returned to the Site to oversee additional soil assessment activities. One borehole (BH01) was advanced utilizing a hand auger to a depth of approximately 2 feet bgs within the release extent. Delineation soil samples were collected from the borehole at depths of 1-foot and 2 feet bgs. Soil from the borehole 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 the borehole were logged on a lithologic/soil sampling log, which is included in Attachment 2. The borehole delineation soil sample location is presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the site visits. A Photographic log is included in Attachment 3.

Laboratory analytical results for the delineation soil samples collected from borehole BH01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Preliminary soil sample SS01 and delineation soil samples from borehole BH01 were collected from within the release extent from depths ranging from 0.5 feet to 2 feet bgs to assess for the presence or absence of soil impacts as a result of the April 5, 2021 produced water release. Laboratory analytical results for the preliminary and delineation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additionally, the release was vertically delineated to below the most stringent Table 1 Closure Criteria.

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

wsp

District II Page 4

soil was identified, and no excavation was required as a result of the produced water release. XTO respectfully requests NFA for Incident Number NAPP2110947284.

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

Sincerely,

WSP USA Inc.

malle

Jeremy Hill Environmental Scientist

Ashley L. Ager

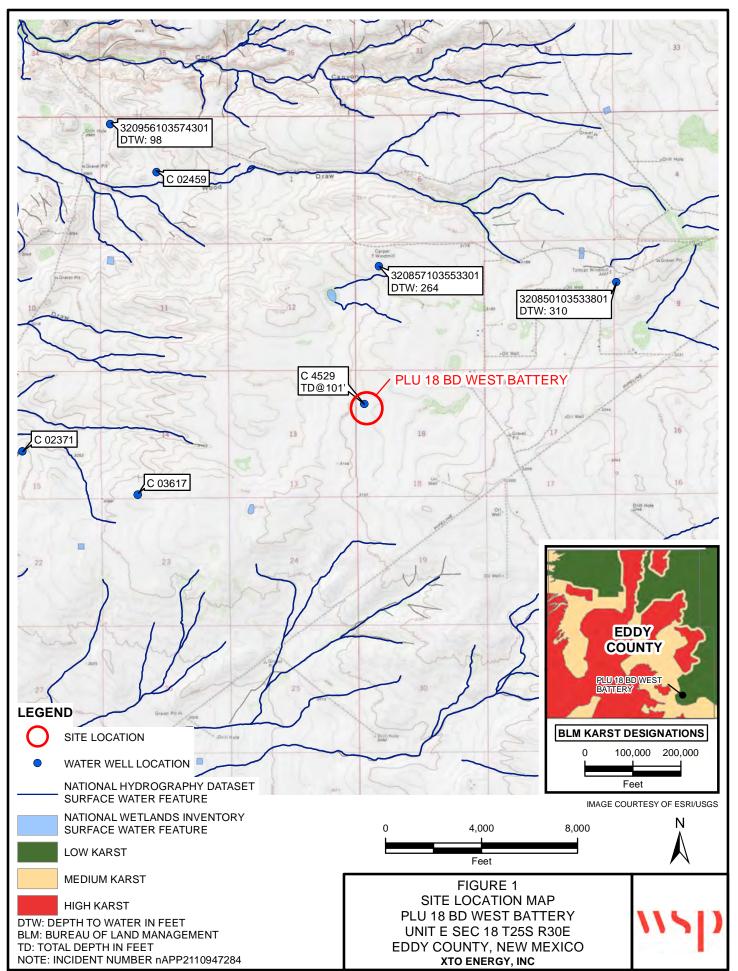
Ashley L. Ager, P.G. Managing Director, Geologist

cc: Kyle Littrell, XTO Bureau of Land Management

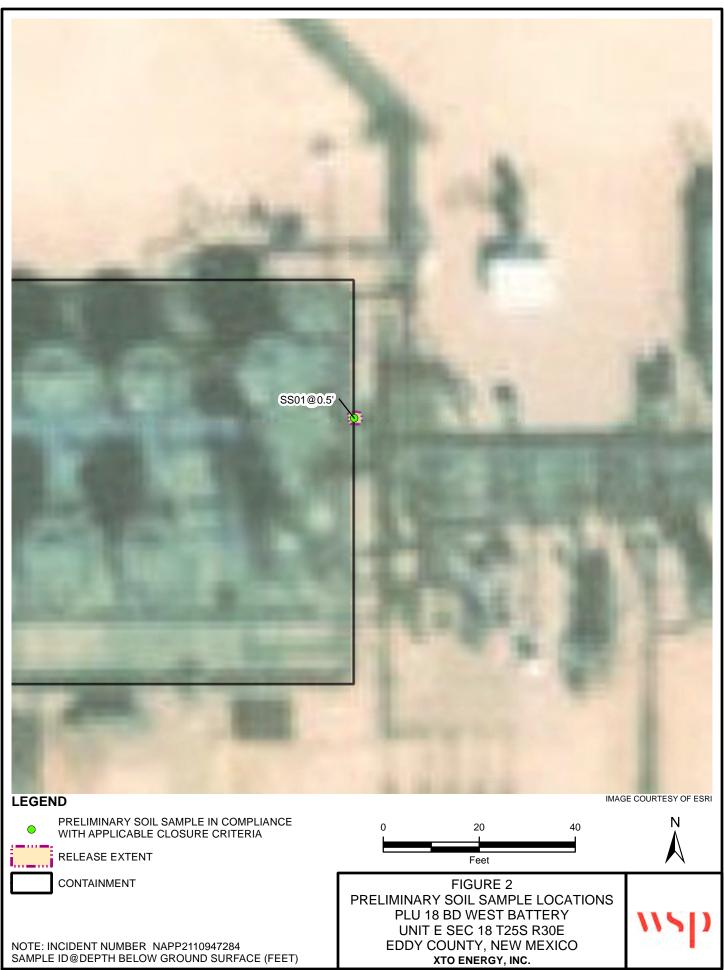
Attachments:

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

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Released to Imaging: 9/23/2021 2:26:27 PM



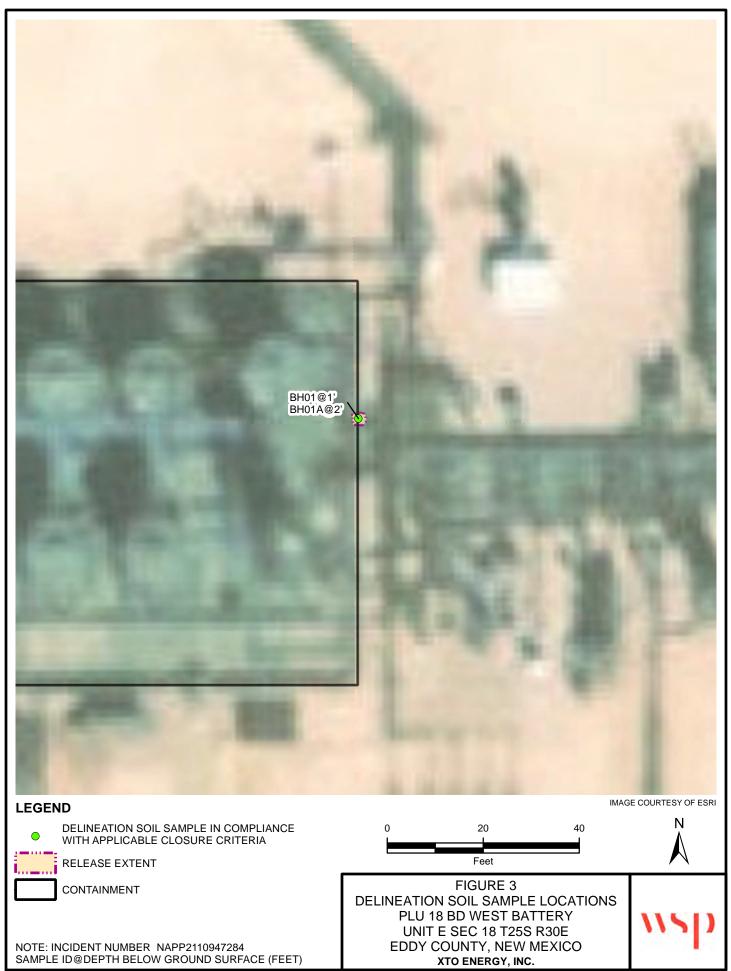


Table 1

Soil Analytical Results PLU 18 BD West Battery Incident Number NAPP2110947284 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	sure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	04/21/2021	0.5	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	5,560
Delineation Samples										
BH01	06/16/2021	1	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	654
BH01A	06/16/2021	2	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	20.4

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

WSP

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2904 W 2nd St. Roswell, NM 88201 Volce: 575.624.2420 fax: 575.624.2421 www.afkinseng.com

06/09/2021

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4529 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4529 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Guoon Middlam

Lucas Middleton

Enclosures: as noted above





PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State	Engineer Well Number: C-4529-POD1		20 200 8870
	owner: XTO ENERGY (Kyle Littrell)	Phone No.: 4	32.002.0073
	ing address:6401 Holiday Hill Dr Midland State:	Texas	Zip code:79707
	WELL PLUGGING INFORMATION:	Atking (Atking Engineeri	na Associatos Inc.)
l) 2)	Name of well drilling company that plugged well:		iration Date:
3)	Well plugging activities were supervised by the following w Shane Eldridge, Carmelo Trevino, Cameron Pruitt		
4)	Date well plugging began: 06/08/2021 Date	te well plugging concluded	l: 06/08/2021
5)	GPS Well Location: Latitude: <u>32</u> deg, Longitude: <u>103</u> deg,	8 min, 2.07 55 min, 42.27	
5)	Depth of well confirmed at initiation of plugging as:10 by the following manner: weighted tape	1 ft below ground level	l (bgl),
7)	Static water level measured at initiation of plugging:	aft bgl	
8)	Date well plugging plan of operations was approved by the	State Engineer:04/22/202	21
9)	Were all plugging activities consistent with an approved plu differences between the approved plugging plan and the we	egging plan? Yes Il as it was plugged (attach	If not, please describ additional pages as needed):
		85-	1 0 7 JUNE 00 2021 #42 J 0

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	<u>Theoretical Volume</u> of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 20.8 gallons	15.9 gallons	Augers	
	10'-101' Drill Cuttings	Approx. 145 gallons	145 gallons	Boring	
-					
-					
_					
-					
		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	3Y AND OBTAIN 1805 = gallons 17 = gallons	632.07	319 10 2021 n/2 10

For each interval plugged, describe within the following columns:

III. SIGNATURE:

I, <u>Jackie D. Atkins</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

06/09/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

2021-06-07_C-4529_POD1_OSE_Well Record and Log_161-forsign

Final Audit Report

2021-06-09

Created:	2021-06-09
Ву:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAx3vgpa2DXHruqslc_wdMXM5SCxHD9Hee

"2021-06-07_C-4529_POD1_OSE_Well Record and Log_161-for sign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-06-09 - 5:46:38 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-06-09 - 5:47:16 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-06-09 - 6:46:34 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2021-06-09 - 6:47:32 PM GMT - Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-06-09 - 6:47:32 PM GMT

00107 J.N = 2021 PM2 1.5





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO).)		WELL TAG ID NO.			OSE FILE NO(S).		
NOL	POD1 (M				n/a			C-4529			
DCAT	WELL OWNE XTO Energ		,					PHONE (OPTI	ONAL)		
WELL LO	WELL OWNE 6401 Holid							CITY Midland		state TX 79707	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GP	S)	TITUDE	GREES 32° 103°	MINUTES 8' 55'	SECON 2.0 42.2	7" N		REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A SECOND	
1. GENI	DESCRIPTION NW S	ON RELATE	NG WELL LOCATION TO	STREET ADD	RESS AND COMMON	N LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
i i	LICENSE NO 124		NAME OF LICENSED		Jackie D. Atkins				NAME OF WELL DR Atkins Eng	ILLING COMPANY incering Associates, I	nc.
	DRILLING ST 05/14/2		DRILLING ENDED 05/14/2021		OMPLETED WELL (F rary well materia			le depth (FT) 101	DEPTH WATER FIR:	ST ENCOUNTERED (FT) n/a	
77	COMPLETER	WELL IS:	ARTESIAN	🔽 DRY HO	le 🗍 shallo	W (UNCO	NFINED)		STATIC WATER LEV	el in completed we n/a	LL (FT)
TIOL	DRILLING FI	UID:	AIR	MUD	ADDITIV	ES - SPE	CIFY:				
RMA	DRILLING M	ETHOD:	ROTARY	HAMME	R CABLE 1	TOOL	V OTHE	R – SPECIFY:	Hollo	w Stem Auger	
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM		MATERIAL ANI GRADE		CONI	ASING NECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
ASI			(inches)		each casing string, sections of screen)			TYPE ling diameter)	(inches)	(inches)	(inches)
380	0	101	±6.5		Boring- HSA		-	-		-	-
TIN			-	-		-			2		
DRIL											1
5.]	1000	_				11) [
							-				
									1		
							_	_			
н	DEPTH		BORE HOLE DIAM. (inches)		IST ANNULAR SI AVEL PACK SIZE				AMOUNT (cubic feet)	METHO PLACEN	
ERIA	FROM	то					_		. ,		
3. ANNULAR MATERIAL	1										
LAR											
INN	-	1	-							-	
3. AI											
						_	_				0/1=0
	OSE INTER 3 NO.	NAL USE]		POD NO	D.		WR-2 TRN 1		& LOG (Version 06/3	0/17)
-	ATION						1	WELLTAGI		PAGE	1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	1	WATER	ESTIMATED YIELD FOR				
	FROM	то	THICKNESS (feet)		INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)						
	0	4	4	SAND, poorly graded, fine-very grained, caliche gravel, Reddish-brown	, dry	Y 🖌 N					
	4	29	25	CALICHE, poorly consolidated, with sand medium grained, tan-off white	e, dry	Y 🖌 N					
	29	39	10	SAND, poorly graded, fine-very grained, some caliche gravel, Tan-brown	n, dry	Y √N					
	39	54	15	SILTY SAND, poorly graded, very- fine grained, Light brown, dry		Y √N					
	54	59	5	SILTY SAND, poorly graded, very- fine grained, caliche gravel Light brow	wn, dr	Y √N					
T	59	73	14	SANDY CLAY, very-fine grained sand, low plasticity, Brown- Red Brown	n, moi	Y 🖌 N					
WEI	73	79	6	CLAYEY SAND, low plasticity, very-fine grained sand, Brown/Red Brow	wn, me	Y 🖌 N					
OF	79	83	4	SANDY CLAY, very-fine grained sand, low plasticity, Brown- Dark Brow	vn, mo	Y √N					
90	83	94	9	SANDY CLAY, very-fine grained sand, low plasticity, Reddish Brown, r	noist	Y 🖌 N					
4. HYDROGEOLOGIC LOG OF WELL	94	99	5	SANDY CLAY, very-fine grained sand, low plasticity, Brown-Dark Brow	n, dry	Y √N					
FOG	99	101	2	SANDY CLAY, very-fine grained sand, low plasticity, Earth Brown, d	ry	Y 🖌 N					
GEO						Y N					
ROO	1					Y N					
НУВ	×1					Y N					
4						Y N					
						Y N					
						Y N					
						Y N					
						Y N					
18						Y N					
1.8						Y N					
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:		L ESTIMATED					
	PUM	P 🗌 A		BAILER OTHER – SPECIFY:	WELI	L YIELD (gpm):	0.00				
N	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVI							
TEST; RIG SUPERVISION	MISCELLA	NEOUS INI	fe	emporary well materials removed and the soil boring backfilled usin et below ground surface, then hydrated bentonite chips from ten fee ogs adapted from WSP on-site geologist.	ng drill et below	cuttings from to ground surface	tal depth to ten to surface.				
ST; RI											
5. TE			RILL RIG SUPER elo Trevino, Car	XVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON neron Pruitt	STRUC	TION OTHER TH	IAN LICENSEE:				
SIGNATURE	CORRECT I	RECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL F DO DAYS AFTER COMPLETION OF WELL DRILLING:	IEF, TH RECORI	E FOREGOING I O WITH THE STA	S A TRUE AND ATE ENGINEER				
6. SIGN	Jack A	tkins		Jackie D. Atkins		06/09/2021					
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE NAME		DATE					
FOI	R OSE INTER	NALUSE		WR-20 WR	LL REC	ORD & LOG (Ver	rsion 06/30/2017				
	E NO.	ULL ODE		POD NO. TRN NO.							
LO	CATION			WELL TAG ID NO	-		PAGE 2 OF 2				

									BH or PH Name:	Date:		
V					WS	P USA			BH01	6/16/2021	1	
				5	08 West S	Stevens S	Street		Site Name:		BD Wes	t Battery
				Car	08 West S Isbad, Ne	w Mexico	88220		RP or Incident Number:	NAPP211		,
									WSP Job Number:	TE0129	921042	
		LITH	OLOC	SIC / SOIL			G		Logged By: Travic C.	Method:		H. Auger
Lat/Lo 32.133	ng: 318, -103.9	2790			Field Scre Hatch Chlo		s. PID		Hole Diameter: 3"	Total Dep 2.0'	oth:	
Comm	nents:						.,					
	TD at 2.0	feet					×					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	blogy/Remarks		
						0						
D	314	2.4	Ν	BH01	1.0	1.0	SP-SM	Poorly g No odor,	raded, fine sand with no plasticity, Organie	silt and gravel cs. Reddish T	an	
D	BDL	1.0	Ν	BH01A	2.0	2.0			raded, fine sand with no plasticity, Organio			
					-	-						
					-	-						
					-	- 						
					-	-						
					-	-						
					-	- -						
					-	- - -						
					-	- -						
					-	-						
					- -	- - -						
					-	-						
					-	- - -						

wsp

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 18 BD West Battery	nAPP2110947284
	Eddy County, New Mexico	

Photo No.	Date
1	April 06, 2021
	l release area on
F	bad.

Photo No.	Date	
2	April 21, 2021	
	ise area on pad	
during initial s	site assessment.	
		the fair and the second
		A Historian

•

wsp

PHOTOGRAPHIC LOG						
XTO Energy, Inc.	PLU 18 BD West Battery	nAPP2110947284				
	Eddy County, New Mexico					

oto No. Date	ite
3 June 16, 20	, 2021
v of BH01 location utilizi a hand auger.	

Photo No.	Date	
4	June 16, 2021	
√iew of deline	ation BH01 area.	

•

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

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-553-1

Laboratory Sample Delivery Group: Eddy County NM Client Project/Site: PLU 18 BD West Battery -

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 4/26/2021 12:46:46 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.

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

LINKS

Review your project results through

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Laboratory Job ID: 890-553-1 SDG: Eddy County NM

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Eurofins Xenco, Carlsbad 4/26/2021

Definitions/Glossary

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery -

Job ID: 890-553-1 SDG: Eddy County NM

NEG

POS

PQL PRES

QC RER

RL RPD

TEF

TEQ

TNTC

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		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)	11
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)	

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Negative / Absent

Positive / Present Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Presumptive Quality Control

Job ID: 890-553-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-553-1

Comments

No additional comments.

Receipt

The sample was received on 4/21/2021 1:48 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-553-1).

GC VOA

No analytical or quality issues were noted, other than those described 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 preparation batch 880-2236 and analytical batch 880-2237 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.

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.

Job ID: 890-553-1 SDG: Eddy County NM

Project/Site: PLU 18 BD West Battery -

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 890-553-1 SDG: Eddy Count

Client Sample ID: SS01

Date Collected: 04/21/21 10:25 Date Received: 04/21/21 13:48

Sample Depth: - 0.5

Client: WSP USA Inc.

Lab Sample ID: 890-5

Matrix:

ty NM	2
53-1 Solid	3
	4
	5
Dil Fac	6
1 1 1	7
1 1	8
1	9
Dil Fac 1	10
1	11
Dil Fac	12
1	13
1	14

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Benzene	<0.00200	U	0.00200	mg/Kg		04/23/21 09:17	04/23/21 21:22
Toluene	<0.00200	U	0.00200	mg/Kg		04/23/21 09:17	04/23/21 21:22
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/23/21 09:17	04/23/21 21:22
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/23/21 09:17	04/23/21 21:22
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/23/21 09:17	04/23/21 21:22
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/23/21 09:17	04/23/21 21:22
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/23/21 09:17	04/23/21 21:22
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
4-Bromofluorobenzene (Surr)	116		70 - 130			04/23/21 09:17	04/23/21 21:22
1,4-Difluorobenzene (Surr)	102		70 - 130			04/23/21 09:17	04/23/21 21:22
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/22/21 13:28	04/23/21 12:02
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/22/21 13:28	04/23/21 12:02
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/22/21 13:28	04/23/21 12:02
Total TPH	<50.0	U	50.0	mg/Kg		04/22/21 13:28	04/23/21 12:02

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			04/22/21 13:28	04/23/21 12:02	1
o-Terphenyl	123		70 - 130			04/22/21 13:28	04/23/21 12:02	1
Method: 300.0 - Anions, Ion Chi	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5560		49.8	mg/Kg			04/23/21 17:39	10

Project/Site: PLU 18 BD West Battery -

Job ID: 890-553-1 SDG: Eddy County NM

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: WSP USA Inc.

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-553-1	SS01	116	102		
LCS 880-2186/1-A	Lab Control Sample	113	104		6
LCSD 880-2186/2-A	Lab Control Sample Dup	111	102		
MB 880-2186/5-A	Method Blank	89	90		
Surrogate Legend					0
BFB = 4-Bromofluorob	enzene (Surr)				Ō
DFBZ = 1,4-Difluorobe					9
Method: 8015B N Matrix: Solid	M - Diesel Range Organics	s (DRO) (GC	;)	Prep Type: Total/NA	10
_				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-553-1	SS01	114	123		
Surrogate Legend					13
1CO = 1-Chlorooctane	9				
OTPH = o-Terphenyl					

QC Sample Results

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery -

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 2192 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Resident of the second seco	1B MB ult Qualifier							Prep Bato	
Benzene Toluene Ethylbenzene	<0.0020	It Qualifier								
Toluene Ethylbenzene			RL		Unit		D	Prepared	Analyzed	Dil Fa
Ethylbenzene		<u>JO</u> U	0.00200		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
	<0.0020)0 U	0.00200		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
m-Xylene & p-Xylene	<0.002	JO U	0.00200		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
	<0.0040)0 U	0.00400		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
o-Xylene	<0.002	JO U	0.00200		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
Xylenes, Total	<0.0040)0 U	0.00400		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
Total BTEX	<0.0040)0 U	0.00400		mg/K	g	04/	/23/21 09:17	04/23/21 13:51	
	л	1B MB								
Surrogate	%Recove	ry Qualifier	Limits					Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		89	70 - 130				04,	/23/21 09:17	04/23/21 13:51	
1,4-Difluorobenzene (Surr)		90	70 - 130				04,	/23/21 09:17	04/23/21 13:51	
Matrix: Solid Analysis Batch: 2192			Spike	LCS	LCS				Prep Type: 1 Prep Bato %Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			0.100	0.1042		mg/Kg		104	70 - 130	
Toluene			0.100	0.09834		mg/Kg		98	70 - 130	
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene			0.200	0.2202		mg/Kg		110	70 - 130	
o-Xylene			0.100	0.1102		mg/Kg		110	70 - 130	
	LCS L	cs								
Surrogate	%Recovery Q	ualifier	Limits							
4-Bromofluorobenzene (Surr)	113		70 - 130							
1,4-Difluorobenzene (Surr)	104		70 - 130							
Lab Sample ID: LCSD 880-21	36/2-A					Cli	ent Sa	mole ID: L	ab Control Sam	
Matrix: Solid						•			Prep Type: 1	

Spike

Added

0.100

0.100

0.100

0.200

0.100

Limits

70 - 130

70 - 130

LCSD LCSD

111

102

Qualifier

%Recovery

LCSD LCSD

0.1049

0.1007

0.1078

0.2299

0.1149

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

%Rec

105

101

108

115

115

RPD

Limit

35

35

35

35

35

RPD

1

2

4

4

4

Job ID: 890-553-1 SDG: Eddy County NM

Eurofins Xenco, Carlsbad

%Rec.

Limits

70 - 130

70 - 130

70 - 130

70 - 130

70 - 130

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

QC Sample Results

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery - Job ID: 890-553-1 SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2236/1-A Matrix: Solid										Cli	ent S	ample ID: Prep	Method Type: S	
Analysis Batch: 2237														
	MB	MB												
Analyte	Result	Qualifier		RL		U	nit		D	Prepa	ared	Analy	zed	Dil Fac
Chloride	<5.00	U		5.00		m	ng/Kg					04/23/21	15:32	1
Lab Sample ID: LCS 880-2236/2-A									Clie	ent Sa	mple	ID: Lab C	ontrol S	Sample
Matrix: Solid												Prep	Type: S	Soluble
Analysis Batch: 2237														
-			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qualifie	er	Unit	[D %	Rec	Limits		
Chloride			250		255.5			mg/Kg			102	90 _ 110		
Lab Sample ID: LCSD 880-2236/3-A								Cli	ent Sa	ample	D: L	_ab Contro	ol Samp	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 2237														
			Spike		LCSD	LCSD						%Rec.		RPD
Analyte			Added		Result	Qualifie	er	Unit	I	D %	Rec	Limits	RPD	Limit
Chloride			250		260.6			mg/Kg			104	90 - 110	2	20

QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery - Page 39 of 68

Job ID: 890-553-1 SDG: Eddy County NM

GC VOA

Prep Batch: 2186

rep Batch: 2186					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-553-1	SS01	Total/NA	Solid	5035	
MB 880-2186/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2186/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2186/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 2192					
Indiysis Daton. 2102					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-553-1	SS01	Total/NA	Solid	8021B	2186
MB 880-2186/5-A	Method Blank	Total/NA	Solid	8021B	2186
LCS 880-2186/1-A	Lab Control Sample	Total/NA	Solid	8021B	2186
LCSD 880-2186/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2186
C Semi VOA					
nalysis Batch: 2136					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-553-1	SS01	Total/NA	Solid	8015B NM	2156
rep Batch: 2156					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-553-1	SS01	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2236

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method Prep Ba	tch
890-553-1	SS01	Soluble	Solid	DI Leach	
MB 880-2236/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2236/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2236/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2237

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-553-1	SS01	Soluble	Solid	300.0	2236
MB 880-2236/1-A	Method Blank	Soluble	Solid	300.0	2236
LCS 880-2236/2-A	Lab Control Sample	Soluble	Solid	300.0	2236
LCSD 880-2236/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2236

Lab Chronicle

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery -

Client Sample ID: SS01 Date Collected: 04/21/21 10:25

Date Received: 04/21/21 13:48

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2186	04/23/21 09:17	KL	XM
Total/NA	Analysis	8021B		1	2192	04/23/21 21:22	KL	XM
Total/NA	Prep	8015NM Prep			2156	04/22/21 13:28	DM	XM
Total/NA	Analysis	8015B NM		1	2136	04/23/21 12:02	AJ	XM
Soluble	Leach	DI Leach			2236	04/23/21 14:18	СН	XM
Soluble	Analysis	300.0		10	2237	04/23/21 17:39	WP	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Job ID: 890-553-1

Matrix: Solid

SDG: Eddy County NM

Lab Sample ID: 890-553-1

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery -

SDG: Eddy County NM

Laboratory: Eurofins Xenco, Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date		
xas		ELAP	T104704400-20-21	06-30-21		
The following analytes are included in this report the agency does not offer certification.		it the laboratory is not certin	ied by the governing authority. This list ha	ay include analytes for		
0,		Matrix	Analyte			
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH			

Eurofins Xenco, Carlsbad

Page 41 of 68 Job ID: 890-553-1

Project/Site: PLU 18 BD West Battery -

Job ID: 890-553-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	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
3015NM Prep	Microextraction	SW846	XM
OI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

Client: WSP USA Inc.

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

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Sample Summary

Client: WSP USA Inc. Project/Site: PLU 18 BD West Battery - Job ID: 890-553-1 SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-553-1	SS01	Solid	04/21/21 10:25	04/21/21 13:48	- 0.5	4
						5
						8
						9
						1
						1

Eurofins Xenco, Carlsbad

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Notice: Signature of this document and reling of service. Eurofins Xenco will be liable only fi of Eurofins Xenco. A minimum charge of \$85. I Reling uished by: (Signature)	Project Manager: Dign Company Name: WSP Address: 330 Address: 330 City, State ZIP: M:: Project Name: PUU Project Name: PUU Sampler's Name: PUU Sampler's Name: E PO #: Samples Received Intact: Cooler Custody Seals: Total Containers: Sample Custody Seals: Sample Identification Somple Identification SS 0 1 Somple Author/fic and Mathod/fic and M	🛟 eurofins
nt and relinquishment of samples constitut liable only for the cost of samples and sha arge of \$85.00 will be applied to each proj argenture) Receiv	My: r Ny: r USA Pera USA Pera 18 & Work A TEGI 29 UIO TEGI 20 UIO	NS Environment Testing
s constitutes a valid purchase order from client cc as and shall not assume any responsibility for any each project and a charge of 55 for each sample Received by: (Signature) OVTADIAL	RCRA 13PPM Texas Bill to: (if d W::-C Company I Address: Address: Turn Around Turn Around MRoutine Rush Due Date: Rush TAT starts the day received the lab, if received by 4:30 renderature: U. H.	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, Its affiliates and subcontractors. It assigns standard terms and condition of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client If such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neg of \$100 minimum charge of \$55.00 will be explicit to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neg of \$100 minimum charge of \$500 will be explicit to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neg of \$100 minimum charge of \$500 will be explicit to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neg of \$100 minimum charge of \$500 minimum charge of \$50	BCRA Sh As Ba Be B Cd Chercle (EPA 300.0)	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
	ANALYSIS RE ANALYSIS RE B90-553 Cha B90-553 Cha B90-553 Cha Cu Pb Mn Mo T	tody (X (214) 902-0300 0. TX (210) 509-3334
terms and conditions seyond the control inless previously negotiated. ature) Received by: (Signature)	Work Ord UST/PST PRP oject: EDD Level III Level III E S: EDD H H H H H G: 1631/2	Work Order No:
ture) Date/Time	work Order Comments of I Work Order Comments RRC Superfund PRP Brownfields RRC Superfund LevelIII PST/UST TRRP LeveIIV	0.

5

Received by OCD: 7/1/2021 10:51:52 AM

L	Custody Spale Intact Custody Spal No	Relinquished by:	Relinquished by		Conversion (Apont)	Delixershimed Delixershimed	International according to the standard of the	Note: Since laboratory accreditations are subject to change, Eurofins Xenco L					SS01 (890-553-1)		Sample Identification - Client ID (Lab ID)		Project Name: PLU 18 BD West Battery	Email	Phone: 432-704-5440(Tel)	State, Zip: TX, 79701	City Midland	Address. 1211 W Florida Ave, .	Company Eurofins Xenco	Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199	Eurofins Xenco, Carlsbad
		Date/Time-	Date/Time:	Date/Time:			return the signed Chain of Custo	LC places the ownership of meth					4/21/21 10 25 Mountain	X	Sample Date Time	SSCW#	Project #: 89000004	WO#	PO #		TAT Requested (days)	Due Date Requested 4/27/2021		Phone:	Sampler.		
	Combany	Company	Company	Company			must be snipped back to the Eurofin dy attesting to said complicance to	od analyte & accreditation complia					25 Solid		Sample Matrix Type (W-water ble (C=comp, O-wasteloi, G=ggrab) BT-Tissue, A-Air)	-								E-Mail jessic	Lab PM Krame	Chain of Custody Record	
Cooler Temperature(s) °C and	5	Donitod hu	Received by		ecial instructions/		Eurofins Xenco LLC laboratory or other instruc	ance upon out subcontract laboratories.					× × × ×	× -	Field Filterer Perform MS/ 8015MOD_NN 300_ORGFM_ 8021B/6036FF	MSD (\ 1/8015N1 28D/D1_	Ves or M_S_Pi LEACH	No) rep Ful	I TPH			Analysis	Accreditations Required (See note) NELAP - Louisiana NELAP - Texas	E-Mail jessica kramer@eurofinset com	Lab PM Kramer, Jessica	Record	
and Other Remarks.			Date/Time	Method of Shipment.		ree may be assessed it samples are retained longer than 1 month) tDisposal By LabArchive ForMont	tions will be provided Any changes to	This sample shipment is forwarded und														is Requested	exas	State of Origin New Mexico	Carrier Tracking No(s)		
			4005.012			Archive For	accreditation status should be bro	ler chain-of-custody If the laborat		17 9				X	Total Numbe Special Inst	r of co Other	L EDA	I Ice J DI Water	G Amchlor H Ascorbic Acid		B NaOH C Zn Acetate	on Cod	Job #: 890-553-1	Page: Page 1 of 1	COC No: 890-178 1	្ទុះ eurorins	2
Ver 11/01/2020	Company		Company	Tompany		nonth) Months	rught to Eurofins Xenco	ory does not currently							Special Instructions/Note:		v pH 4-5 2 other (specify)	J Acetone / MCAA	 K - NaZSZUJ H2SO4 TSP Dodecahvdrate 	P Na2O4S Q Na2SO3	AsNaO2					Environment Testing America	

Job Number: 890-553-1 SDG Number: Eddy County NM List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 553 List Number: 1 Creator: Ordonez, Gabby

<6mm (1/4").

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 553 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").

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Job Number: 890-553-1

SDG Number: Eddy County NM List Source: Eurofins Midland

List Creation: 04/22/21 01:03 PM

Received by OCD: 7/1/2021 10:51:52 AM

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

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-818-1

Laboratory Sample Delivery Group: TE012921042 Client Project/Site: PLU 18 West Battery

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 6/21/2021 9:06:29 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.

Visit us at: www.eurofinsus.com/Env

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Have a Question?

Released to Imaging: 9/23/2021 2:26:27 PM

Laboratory Job ID: 890-818-1 SDG: TE012921042

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2

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 18 West Battery

Job ID: 890-818-1 SDG: TE012921042

Qualifiers		3
GC VOA Qualifier	Qualifier Description	Λ
	Indicates the analyte was analyzed for but not detected.	
-		E
GC Semi VOA		Ð
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)	4.0
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	13
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

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

NEG Negative / Absent

Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

QC 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

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Job ID: 890-818-1 SDG: TE012921042

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Job ID: 890-818-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-818-1

Receipt

The samples were received on 6/16/2021 1:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-818-1) and BH01 A (890-818-2).

GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: BH01 (890-818-1) and BH01 A (890-818-2). The sample(s) shows evidence of matrix interference.

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

GC Semi VOA

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

HPLC/IC

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

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

0.00401

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

06/17/21 13:40

06/17/21 13:40

06/17/21 13:40

06/17/21 13:40

06/17/21 13:40

06/17/21 13:40

06/17/21 13:40

Prepared

06/17/21 13:40

06/17/21 13:40

Job ID: 890-818-1 SDG: TE012921042

Client Sample ID: BH01

Project/Site: PLU 18 West Battery

Date Collected: 06/16/21 09:34 Date Received: 06/16/21 13:23

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

ix: Solid	
	4
	5
Dil Fac	
1	6
1	
1	7
1	_
1	8
1	
1	9
Dil Fac	
1	11
Dil Fac	

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

<0.00401 U

%Recovery Qualifier

119 95

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/18/21 10:16	06/19/21 01:14	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/18/21 10:16	06/19/21 01:14	1	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/18/21 10:16	06/19/21 01:14	1	
Total TPH	<50.0	U	50.0	mg/Kg		06/18/21 10:16	06/19/21 01:14	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 _ 130	06/18/21 10:16	06/19/21 01:14	1
o-Terphenyl	71		70 - 130	06/18/21 10:16	06/19/21 01:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	654	25.0	mg/Kg			06/21/21 18:00	5

Client Sample ID: BH01 A Date Collected: 06/16/21 09:36 Date Received: 06/16/21 13:23

Sample Depth: - 2

Method: 8021B - Volatile Organ	ic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		06/17/21 13:40	06/17/21 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			06/17/21 13:40	06/17/21 19:59	1
1,4-Difluorobenzene (Surr)	92		70 - 130			06/17/21 13:40	06/17/21 19:59	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-818-1 Matri

Analyzed

06/17/21 19:39

06/17/21 19:39

06/17/21 19:39

06/17/21 19:39

06/17/21 19:39

06/17/21 19:39

06/17/21 19:39

Analyzed

06/17/21 19:39

06/17/21 19:39

Lab Sample ID: 890-818-2

Matrix: Solid

Client Sample Results

Job ID: 890-818-1 SDG: TE012921042

Matrix: Solid

5

Lab Sample ID: 890-818-2

Client Sample ID: BH01 A

Project/Site: PLU 18 West Battery

Date Collected: 06/16/21 09:36 Date Received: 06/16/21 13:23

Sample Depth: - 2

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		06/18/21 10:16	06/19/21 01:35	1
GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		06/18/21 10:16	06/19/21 01:35	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/18/21 10:16	06/19/21 01:35	1
Fotal TPH	<49.8	U	49.8	mg/Kg		06/18/21 10:16	06/19/21 01:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
I-Chlorooctane	84		70 - 130			06/18/21 10:16	06/19/21 01:35	1
o-Terphenyl	80		70 - 130			06/18/21 10:16	06/19/21 01:35	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		5.04	mg/Kg			06/21/21 17:45	

Job ID: 890-818-1 SDG: TE012921042

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
mple ID	Client Sample ID	(70-130)	(70-130)	
-1	BH01	119	95	
8-2	BH01 A	117	92	
80-4246/1-A	Lab Control Sample	104	93	
D 880-4246/2-A	Lab Control Sample Dup	110	96	
80-4197/5-A	Method Blank	112	93	
880-4246/5-A	Method Blank	113	92	
Surrogate Legend				
FB = 4-Bromofluorober	izene (Surr)			
BZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) Lab Sample ID **Client Sample ID** (70-130) 890-818-1 BH01 74 71 890-818-2 BH01 A 84 80 LCS 880-4287/2-A Lab Control Sample 77 84 LCSD 880-4287/3-A Lab Control Sample Dup 85 77 MB 880-4287/1-A Method Blank 88 87

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

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QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4197/5-A								С	lient Sa	mple ID: Metho	d Blank
Matrix: Solid										Prep Type:	
Analysis Batch: 4175										Prep Bate	
· ···· , ··· - ··· · · · · ·	МВ	МВ									
Analyte	Result	Qualifier	RL		Unit		D	Pre	pared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g	_	06/16/2	21 13:58	06/17/21 02:17	1
Toluene	<0.00200	U	0.00200		mg/K	g		06/16/2	21 13:58	06/17/21 02:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	g		06/16/2	21 13:58	06/17/21 02:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g		06/16/2	21 13:58	06/17/21 02:17	1
o-Xylene	<0.00200	U	0.00200		mg/K	g		06/16/2	21 13:58	06/17/21 02:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		06/16/2	21 13:58	06/17/21 02:17	1
Total BTEX	<0.00400	U	0.00400		mg/K	g		06/16/2	21 13:58	06/17/21 02:17	1
	МВ	МВ									
Surrogate	%Recovery	Qualifier	Limits					Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130					06/16/	21 13:58	06/17/21 02:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130					06/16/	21 13:58	06/17/21 02:17	1
Lab Sample ID: MB 880-4246/5-A								С	lient Sa	mple ID: Metho	d Blank
Matrix: Solid										Prep Type: 7	Total/NA
Analysis Batch: 4175										Prep Bate	ch: 4246
	MB	MB									
Analyte	Result	Qualifier	RL		Unit		D	Pre	pared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	9		06/17/2	21 13:40	06/17/21 18:49	1
Toluene	<0.00200	U	0.00200		mg/K	9		06/17/2	21 13:40	06/17/21 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	9		06/17/2	21 13:40	06/17/21 18:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	9		06/17/2	21 13:40	06/17/21 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/K	9		06/17/2	21 13:40	06/17/21 18:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	9		06/17/2	21 13:40	06/17/21 18:49	1
Total BTEX	<0.00400	U	0.00400		mg/K	g		06/17/2	21 13:40	06/17/21 18:49	1
	МВ	МВ									
Surrogate	%Recovery	Qualifier	Limits					Pre	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130						21 13:40	06/17/21 18:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130					06/17/	21 13:40	06/17/21 18:49	1
Lab Sample ID: LCS 880-4246/1-A							С	lient S	Sample	D: Lab Control	Sample
Matrix: Solid										Prep Type:	Total/NA
Analysis Batch: 4175										Prep Bate	ch: 4246
			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.09758		mg/Kg			98	70 - 130	
Toluene			0.100	0.1152		mg/Kg			115	70 - 130	

Job ID: 890-818-1 SDG: TE012921042

Ethylbenzene

o-Xylene

m-Xylene & p-Xylene

0.100

0.200

0.100

0.1167

0.2442

0.1195

mg/Kg

mg/Kg

mg/Kg

117

122

119

70 - 130

70 - 130

70 - 130

QC Sample Results

Client: WSP USA Inc. Project/Site: PLU 18 West Battery Job ID: 890-818-1 SDG: TE012921042

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

										ab Control Prep Ty		
											Batch	
			Spike	LCSD	LCSD						Date	RP
			•			Unit		п	%Rec		RPD	Lim
												3
												3
												3
												:
			0.100	0.1066		mg/Kg			107	70 - 130	11	:
LCSD	LCS	D										
%Recovery	Qua	lifier	Limits									
110			70 - 130									
96			70 - 130									
Range Oi	rgar	ics (DR	(GC)									
									Client Sa			
											-	
										Prep	Batch	1: 428
							<u>D</u>					Dil F
<	\$0.0	U	50).0	mg/K	g		06/1	8/21 10:16	06/18/21 18	8:16	
<	\$0.0	U	50	0.0	mg/K	g		06/1	8/21 10:16	06/18/21 18	8:16	
<	50.0	U	50	0.0	mg/K	g		06/1	8/21 10:16	06/18/21 18	8:16	
<	50.0	U	50).0	mg/K	g		06/1	8/21 10:16	06/18/21 18	8:16	
	ΜВ	МВ										
%Reco	very	Qualifier	Limits					P	repared	Analyze	d	Dil Fa
	88		70 - 130)				06/1	8/21 10:16	06/18/21 18	8:16	
	87		70 - 130	0				06/1	8/21 10:16	06/18/21 18	8:16	
4							С	lient	Sample	ID: Lab Cor	ntrol S	amp
											-	
			Snike	LCS	LCS							
			-			Unit		п	%Pec			
								- <u>-</u>				
			1000	047.0		mg/Kg			00	70 - 130		
			1000	909.1		mg/Kg			91	70 - 130		
LCS	LCS											
			Limits									
%Recovery												
			Limits 70 - 130 70 - 130									
%Recovery 84 77			70 - 130			C "	ont	Sam	unio ID: L	ah Control	Same	
%Recovery 84			70 - 130			Cli	ent	Sam	iple ID: L	ab Control		
%Recovery 84 77			70 - 130			Cli	ent	Sam	iple ID: L	Prep Ty	pe: To	otal/N
%Recovery 84 77			70 - 130 70 - 130			Cli	ent	Sam	iple ID: L	Prep Ty Prep		otal/N n: 428
%Recovery 84 77			70 - 130 70 - 130 Spike		LCSD	Cli	ent	Sam	-	Prep Ty Prep %Rec.	pe: To Batch	otal/N n: 428 RP
%Recovery 84 77			70 - 130 70 - 130		Qualifier	Cli	ent	Sam	ple ID: L	Prep Ty Prep	pe: To	otal/N n: 428
	<u>%Recovery</u> 110 96 Range Or	%Recovery Qual 110 96 Range Organ MB Result <50.0	96 Range Organics (DR MB Result Qualifier <50.0 U <50.0 U <50.0 U <50.0 U <50.0 U <88 MB Qualifier <88 87	MB MB Inits 110 70 - 130 96 70 - 130 Range Organics (DRO) (GC) MB MB Result Qualifier 4 4 50.0 0 50.0 0 50.0 0 50.0 50 6 50 6 50 6 50 70 50 6 50 70 50 6 50 70 50 70 50 70 50 70 50 70 50 70 70 88 70 70 70 87 70	Added Result 0.100 0.08239 0.100 0.09601 0.100 0.1020 0.200 0.2093 0.100 0.1020 0.200 0.2093 0.100 0.1020 0.200 0.2093 0.100 0.1066 LCSD Limits 70 - 130 70 - 130 Result Qualifier Limits 110 70 - 130 Result Qualifier RL <50.0	Added Result Qualifier 0.100 0.08239 0.100 0.09601 0.100 0.1020 0.2093 0.100 0.1066 LCSD LCSD Qualifier Limits 0.100 0.1066 LCSD LCSD Qualifier Limits 0.100 0.1066 MB MB MB Qualifier Limits 0.100 0.1066 MB MB Qualifier Limits 0.100 0.1066 Kesuit Qualifier Limits 0.100 0.1066 Kesuit Qualifier RL Unit <50.0	Added Result Qualifier Unit 0.100 0.08239 rng/Kg 0.100 0.09601 rng/Kg 0.100 0.1020 rng/Kg 0.200 0.2093 rng/Kg 0.100 0.1066 rng/Kg 0.100 0.1066 rng/Kg 0.100 0.1066 rng/Kg 0.100 0.1066 rng/Kg 200 0.2093 rng/Kg 0.100 0.1066 rng/Kg 200 70 - 130 200 Result Qualifier RL Unit 70 - 130 200 rng/Kg <50.0	Added Result Qualifier Unit 0.100 0.08239 mg/Kg 0.100 0.09601 mg/Kg 0.100 0.1020 mg/Kg 0.200 0.2093 mg/Kg 0.100 0.1066 mg/Kg 0.100 0.1066 mg/Kg Keesult Qualifier Limits 110 70 - 130 96 96 70 - 130 96 Result Qualifier Result Mmit 50.0 U 50.0 mg/Kg <50.0	Added Result Qualifier Unit D 0.100 0.08239 mg/Kg mg/Kg D 0.100 0.09601 mg/Kg D D 0.100 0.1020 mg/Kg D D D 0.200 0.2093 mg/Kg D D D %Recovery Qualifier Limits TO - 130 TO - 130 Sange Organics (DRO) (GC) Result Qualifier Result Qualifier Result MB MB 50.0 U 50.0 mg/Kg 06/1 <50.0	Added Result Qualifier Unit D %Rec 82 0.100 0.08239 mg/Kg 96 0.100 0.09601 mg/Kg 96 0.100 0.1020 mg/Kg 102 0.200 0.2093 mg/Kg 105 0.100 0.1066 mg/Kg 107 LCSD LCSD MB MB Client Sa %Recovery Qualifier Limits 107 70 - 130 96 70 - 130 70 - 130 70 106 Result Qualifier Emits MB 107 <50.0	Added Result Qualifier Unit D %Rec Limits 0.100 0.08239 mg/Kg 96 70-130 82 92 96 96 96 96 92 92 92 92 92 92	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.08239 mg/Kg 96 70.130 17 0.100 0.09901 mg/Kg 96 70.130 13 0.100 0.1020 mg/Kg 105 70.130 15 0.100 0.1066 mg/Kg 107 70.130 11 LCSD LCSD Limits 70.130 11 MB MB Tot.130 11 10 70.130 11 LCSD Limits Tot.130 11

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

Metrico Cellel	// 3-A					Cli	ent Sa	mple IC	: Lab Contro		-
Matrix: Solid										Type: To	
Analysis Batch: 4278			Cuilto	1.000					%Rec.	p Batcl	
Analyto			Spike Added		LCSD Qualifier	Unit	D	%Rec		RPD	RPI Lim
Analyte Diesel Range Organics (Over		<u> </u>	1000	920.1	Quaimer	mg/Kg				1	2
C10-C28)			1000	320.1		myrry		52	10-130	1	2
•		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 <u>-</u> 130								
o-Terphenyl	77		70 - 130								
lethod: 300.0 - Anions, Ion	Chromat	ography									
Lab Sample ID: MB 880-4439/1-	A							Clien	t Sample ID:	Method	Blan
Matrix: Solid									Prep	Type: S	Solub
Analysis Batch: 4440											
-		MB MB									
Analyte	R	esult Qualifier		RL	Unit		D	Prepared	i Analy	zed	Dil Fa
Chloride	<	5.00 U		5.00	mg/K]			06/21/21	17:30	
Lab Sample ID: LCS 880-4439/2	2-A						Clie	nt Samı	ole ID: Lab C	ontrol S	Sampl
Matrix: Solid										Type: S	
									1100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analysis Batch: 4440											
Analysis Batch: 4440			Spike	LCS	LCS				%Rec.		
			Spike Added		LCS Qualifier	Unif	П	%Rec	%Rec.		
Analyte			Spike Added 250		LCS Qualifier	Unit mg/Kg	D	% Rec	Limits		
Analyte Chloride			Added	Result		mg/Kg		92	2 Limits 90 - 110		
Analyte Chloride Lab Sample ID: LCSD 880-4439	// 3-A		Added	Result		mg/Kg		92	2 Limits 90 - 110 D: Lab Contro		
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid	// 3-A		Added	Result		mg/Kg		92	2 Limits 90 - 110 D: Lab Contro	ol Samp Type: {	
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid	/ 3-A		Added 250	Result 229.5	Qualifier	mg/Kg		92	E Limits 90 - 110 D: Lab Contro Prep		Solubl
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440	// 3-A		Added 250 Spike	Result 229.5 LCSD	Qualifier	mg/Kg	ent Sa	92 mple IE	E Limits 90 - 110 C: Lab Contro Prep %Rec.	Type: S	Solubl RP
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte	// 3-A		Added 250	Result 229.5 LCSD	Qualifier	mg/Kg		92 mple IE	E Limits 90 - 110 C: Lab Contro Prep %Rec. Limits		Solubi RP Lim
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride	// 3-A		Added 250 Spike Added	Result 229.5 LCSD Result	Qualifier	mg/Kg Clin	ent Sa	92 mple IC %Rec	2 Limits 90 - 110 2: Lab Contro Prep %Rec. 2: Limits 2: 90 - 110	Type: \$	RP <u>Lim</u> 2
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS	// 3-A		Added 250 Spike Added	Result 229.5 LCSD Result	Qualifier	mg/Kg Clin	ent Sa	92 mple IC %Rec	2 Limits 90 - 110 2: Lab Contro Prep %Rec. 2 Limits 90 - 110 Client Sam	Type: S	RP Lim 2 3H01
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid	// 3-A		Added 250 Spike Added	Result 229.5 LCSD Result	Qualifier	mg/Kg Clin	ent Sa	92 mple IC %Rec	2 Limits 90 - 110 2: Lab Contro Prep %Rec. 2 Limits 90 - 110 Client Sam	Type: \$	RP Lim 2 3H01
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid			Added 250 Spike Added 250	Result 229.5 LCSD Result 230.0	Qualifier LCSD Qualifier	mg/Kg Clin	ent Sa	92 mple IC %Rec	2 Limits 90 - 110 2 Lab Contro Prep %Rec. 2 Limits 90 - 110 Client Sam Prep	Type: S	RP Lim 2 3H01
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analysis Batch: 4440	Sample	Sample	Added 250 Spike Added 250 Spike	Result 229.5 LCSD Result 230.0	Qualifier LCSD Qualifier MS	mg/Kg Clin Unit mg/Kg	ent Sa	92 mple IE %Rec 92	2 Limits 90 - 110 2 Lab Contro Prep %Rec. 2 Limits 90 - 110 Client Sam Prep %Rec.	Type: S	RP Lim 2 3H01
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analysis Batch: 4440 Analyte	Sample	Sample Qualifier	Added 250 Spike Added 250	Result 229.5 LCSD Result 230.0	Qualifier LCSD Qualifier	mg/Kg Clin	ent Sa	92 mple IE %Rec 92	Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits	Type: S	RP Lim 3H01
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analysis Batch: 4440 Analyte Chloride	Sample Result	-	Added 250 Spike Added 250 Spike Added	Result 229.5 LCSD Result 230.0 MS Result	Qualifier LCSD Qualifier MS	mg/Kg Clin Unit mg/Kg Unit	ent Sa	92 mple IE %Rec 92	Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Samp Prep %Rec. Limits 90 - 110 Client Samp %Rec. Limits 90 - 110	Type: { RPD 0 ple ID: F Type: {	Solubi RP <u>Lim</u> 2 3H01 Solubi
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MSD	Sample Result	-	Added 250 Spike Added 250 Spike Added	Result 229.5 LCSD Result 230.0 MS Result	Qualifier LCSD Qualifier MS	mg/Kg Clin Unit mg/Kg Unit	ent Sa	92 mple IE %Rec 92	Limits 90 - 110 90 - 110 90 - 110 91 - Lab Contro Prep %Rec. Limits 90 - 110 Client Sam %Rec. Limits 3 90 - 110 Client Sam Prep %Rec. Limits 3 90 - 110 Client Sam State 90 - 110 Client Sam	Type: { RPD 0	Solubi RP Lim 2 3H01 J Solubi
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analyte Chloride Lab Sample ID: 890-818-2 MSD Matrix: Solid	Sample Result	-	Added 250 Spike Added 250 Spike Added	Result 229.5 LCSD Result 230.0 MS Result	Qualifier LCSD Qualifier MS	mg/Kg Clin Unit mg/Kg Unit	ent Sa	92 mple IE %Rec 92	Limits 90 - 110 90 - 110 90 - 110 91 - Lab Contro Prep %Rec. Limits 90 - 110 Client Sam %Rec. Limits 3 90 - 110 Client Sam Prep %Rec. Limits 3 90 - 110 Client Sam State 90 - 110 Client Sam	Type: { RPD 0 ple ID: F Type: {	Solubi RP Lim 2 3H01 / Solubi
Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analyte Chloride Lab Sample ID: 890-818-2 MSD Matrix: Solid	Sample Result 20.4	Qualifier	Added 250 Spike Added 250 Spike Added 252	Result 229.5 LCSD Result 230.0 MS Result 255.6	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Clin Unit mg/Kg Unit	ent Sa	92 mple IE %Rec 92	 Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam Prep Glient Sam Prep 	Type: { RPD 0	RP Lim 2 3H01 / Solubl 3H01 / Solubl
Analysis Batch: 4440 Analyte Chloride Lab Sample ID: LCSD 880-4439 Matrix: Solid Analysis Batch: 4440 Analyte Chloride Lab Sample ID: 890-818-2 MS Matrix: Solid Analyte Chloride Lab Sample ID: 890-818-2 MSD Matrix: Solid Analyte Chloride Lab Sample ID: 890-818-2 MSD Matrix: Solid Analyte Analysis Batch: 4440 Analysis Batch: 4440	Sample Result 20.4 Sample	Qualifier	Added 250 Spike Added 250 Spike Added	Result 229.5 LCSD Result 230.0 MS Result 255.6	Qualifier LCSD Qualifier MS	mg/Kg Clin Unit mg/Kg Unit	ent Sa	92 mple IE %Rec 92 %Rec 93	$\frac{\text{Limits}}{90 - 110}$ $\frac{90 - 110}{90 - 110}$ $\frac{\text{Lab Control Prep}}{\text{%Rec.}}$ $\frac{\text{Limits}}{90 - 110}$ $\frac{\text{Client Sampers}}{90 - 110}$ $\frac{\text{Client Sampers}}{90 - 110}$ $\frac{\text{Client Sampers}}{\text{Client Sampers}}$ $\frac{\text{Kec.}}{90 - 110}$	Type: { RPD 0	Solubi RPI Limi 20 3H01 A Solubi 3H01 A

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QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 18 West Battery Page 58 of 68

4 5 6

Job ID: 890-818-1 SDG: TE012921042

GC VOA

Analysis Batch: 4175

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-818-1	BH01	Total/NA	Solid	8021B	4246
890-818-2	BH01 A	Total/NA	Solid	8021B	4246
MB 880-4197/5-A	Method Blank	Total/NA	Solid	8021B	4197
MB 880-4246/5-A	Method Blank	Total/NA	Solid	8021B	4246
LCS 880-4246/1-A	Lab Control Sample	Total/NA	Solid	8021B	4246
LCSD 880-4246/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4246
Prep Batch: 4197					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4197/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 4246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4197/5-A	Method Blank	Total/NA	Solid	5035	
rep Batch: 4246					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-818-1	BH01	Total/NA	Solid	5035	
	BH01 A	Total/NA	Solid	5035	
890-818-2			0.11.1	5035	
890-818-2 MB 880-4246/5-A	Method Blank	Total/NA	Solid	3033	
	Method Blank Lab Control Sample	Total/NA Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 4278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-818-1	BH01	Total/NA	Solid	8015B NM	4287
890-818-2	BH01 A	Total/NA	Solid	8015B NM	4287
MB 880-4287/1-A	Method Blank	Total/NA	Solid	8015B NM	4287
LCS 880-4287/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4287
LCSD 880-4287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4287

Prep Batch: 4287

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-818-1	BH01	Total/NA	Solid	8015NM Prep	
890-818-2	BH01 A	Total/NA	Solid	8015NM Prep	
MB 880-4287/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4287/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 4439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-818-1	BH01	Soluble	Solid	DI Leach	
890-818-2	BH01 A	Soluble	Solid	DI Leach	
MB 880-4439/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-4439/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-4439/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-818-2 MS	BH01 A	Soluble	Solid	DI Leach	
890-818-2 MSD	BH01 A	Soluble	Solid	DI Leach	
Analysis Batch: 4440					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-818-1	BH01	Soluble	Solid	300.0	4439

4439

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Client: WSP USA Inc. Project/Site: PLU 18 West Battery

Job ID: 890-818-1 SDG: TE012921042

HPLC/IC (Continued)

Analysis Batch: 4440 (Continued)

Lab Sample IDClient Sample IDPrep TypeMatrixMethodPrep Batch390-818-2BH01 ASolubleSolid300.04439MB 880-4439/1-AMethod BlankSolubleSolubleSolid300.04439LCS 880-4439/2-ALab Control SampleSolubleSolubleSolid300.04439LCS 880-4439/3-ALab Control Sample DupSolubleSolid300.04439390-818-2 MSBH01 ASolubleSolid300.04439390-818-2 MSDBH01 ASolubleSolid300.04439390-818-2 MSDBH01 ASolubleSolid300.04439	alysis Batch: 4440	(Continued)				
MB 880-4439/1-A Method Blank Soluble Solid 300.0 4439 LCS 880-4439/2-A Lab Control Sample Soluble Soluble Solid 300.0 4439 LCS 880-4439/3-A Lab Control Sample Dup Soluble Solid 300.0 4439 LCS 880-4439/3-A BH01 A Soluble Soluble Solid 300.0 4439	ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
CS 880-4439/2-A Lab Control Sample Soluble Solid 300.0 4439 CSD 880-4439/3-A Lab Control Sample Dup Soluble Solid 300.0 4439 90-818-2 MS BH01 A Soluble Soluble Solid 300.0 4439	90-818-2	BH01 A	Soluble	Solid	300.0	4439
CSD 880-4439/3-A Lab Control Sample Dup Soluble Solid 300.0 4439 00-818-2 MS BH01 A Soluble Solid 300.0 4439	B 880-4439/1-A	Method Blank	Soluble	Solid	300.0	4439
0-818-2 MS BH01 A Soluble Solid 300.0 4439	S 880-4439/2-A	Lab Control Sample	Soluble	Solid	300.0	4439
	SD 880-4439/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4439
0-818-2 MSD BH01 A Soluble Solid 300.0 4439	0-818-2 MS	BH01 A	Soluble	Solid	300.0	4439
	0-818-2 MSD	BH01 A	Soluble	Solid	300.0	4439

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Job ID: 890-818-1 SDG: TE012921042

Lab Sample ID: 890-818-1 Matrix: Solid

Lab Sample ID: 890-818-2

Matrix: Solid

Client Sample ID: BH01 Date Collected: 06/16/21 09:34 Date Received: 06/16/21 13:23

Project/Site: PLU 18 West Battery

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4246	06/17/21 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	4175	06/17/21 19:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			4287	06/18/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4278	06/19/21 01:14	AJ	XEN MID
Soluble	Leach	DI Leach			4439	06/21/21 16:44	СН	XEN MID
Soluble	Analysis	300.0		5	4440	06/21/21 18:00	SC	XEN MID

Lab Chronicle

Client Sample ID: BH01 A Date Collected: 06/16/21 09:36 Date Received: 06/16/21 13:23

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4246	06/17/21 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	4175	06/17/21 19:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			4287	06/18/21 10:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1	4278	06/19/21 01:35	AJ	XEN MID
Soluble	Leach	DI Leach			4439	06/21/21 16:44	СН	XEN MID
Soluble	Analysis	300.0		1	4440	06/21/21 17:45	SC	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: PLU 18 West Battery

Laboratory: Eurofins Xenco, Midland

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

thority	Pr	ogram	Identification Number	Expiration Date
as	NE	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, bu	JU THE IADOLATOLY IS NOT CELLI	fied by the governing authority. This list ma	av include analytes for
the agency does not o Analysis Method	• •	Matrix	Analyte	,,,,
0,	fer certification.	,	, , , , ,	

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Job ID: 890-818-1 SDG: TE012921042

Method Summary

Client: WSP USA Inc. Project/Site: PLU 18 West Battery Job ID: 890-818-1 SDG: TE012921042

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
01 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

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Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: PLU 18 West Battery Job ID: 890-818-1 SDG: TE012921042

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-818-1	BH01	Solid	06/16/21 09:34	06/16/21 13:23	- 1
890-818-2	BH01 A	Solid	06/16/21 09:36	06/16/21 13:23	- 2

	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. 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 ar 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 en	Total 200.7 / 6010 Circle Method(s) ar				(BH01A	BH01	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Trav	P.O. Number:	er:	Name:		e ZIP:		Company Name: WSF	Project Manager: Kale	•		
1 R) Inature)	ent and relinguishment of s only for the cost of samples \$75.00 will be applied to ea	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed					s	S	ation Matrix	Yes NO NIA	Yes No NIA	(Yes) No	36/3.4	Temp Blank:	Travis Casey		TE012921042	PLU 18 West Bsttery	(432) 704-5178	Midland, TX 79705	3300 North A St. Bldg 1, Unit 222	WSP USA Inc., Permian office	Kalei Jennings		ABCRATORIES	
	Received by: (Signature)	amples constitutes a valid and shall not assume any ch project and a charge of	8RCRA 1 Nyzed TCLP /			 7		6/16/2021 0436	6/16/2021 0434	Date Time Sampled Sampled	Total Containers:	Correction Factor:	T-NM-00	Thermometer ID	Yes No Wet Ice:	D	Я	H H		En		Unit 222	office		Hobbs,NM (575-	Hous	
6	lature)	l purchase order from clie r responsibility for any log f \$5 for each sample subn	ICRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA					21	11	Depth		-0.2			No No	Due Date: 6/19/21	Rush: 3 day	Routine	Turn Around	Email: travis.casey@wsp.com,	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	392-7550) Phoenix,AZ	ston,TX (281) 240-4200 lland,TX (432-704-5440)	
16/21 / 13; 232	Date/Time	nt company to Xenco, its af sses or expenses incurred b nitted to Xenco, but not ana	Al Sb As Ba Be B AA Sb As Ba Be C		V	1		IVVV		Numbe TPH (E BTEX (Chlorid	PA 80	015) 8021	I)		S					11	Carlsbad, NM	3104 E Greene St.	: XTO Energy	Kyle Littrell	(480-355-0900) Atlanta,G	Dallas,TX (214) 902-030() EL Paso,TX (915)585-3	Chain of Custody
	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xanco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.										890-818 Chai							ANALYSIS REQUEST	kalei.jennings@wsp.com, dan.moir@w					Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	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	ustody
		It assigns standard terms and conditions a due to circumstances beyond the control nforced unless previously negotiated.	Fe Pb Mg Mn Mo Ni K Se Ag n Mo Ni Se Ag Ti U									8 Chain of Custody							IEST	Deliverables: EDD	Reporting:Level II evel III	State of Project: NM	Program: UST/PST				Work
	Received by: (Signature)		SiO2	4				(apposi	12001100	Sam	lab, if	TAT starts				_	CC: 105	IN: nAPP	Wo	ADaPT			□PRP □}rownfields □RC	Work Order Comments	www.xenco.com Page		Work Order No:
	Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg					# + 1 30	21,500	Sample Comments	lab, if received by 4:30pm	s the day recevied by the					CC: 1056711001	IN: nAPP 2 1104472 84	Work Order Notes	Other:]	C Duperfund		of		

Received by OCD: 7/1/2021 10:51:52 AM



Received by OCD: 7/1/2021 10:51:52 AM

A Yes ∆ No		Data in the set for	Palmonistrad by Che Clifton 6.14.te	Relinquished by 2	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note. Since laboratory accreditations are subject to change. Eurofins Xenot LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. 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 instru 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								BH01 A (890-818-2)	BH01 (890-818-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: PLU 18 West Bsttery	Email	Phone 432-704-5440(Tel)	State, Zip TX, 79701	City Midland	Address 1211 W Florida Ave	Company Eurofins Xenco	Client Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199	Eurofins Xenco, Carlsbad
	Date/Time:	Date/Time		DatoTimo	Primary Deliverable Rank 2		C places the ownersh ix being analyzed the eturn the signed Chair								6/16/21	6/16/21	N	Sample Date	SSOW#	Project #: 89000004	WO #	PO #		TAT Requested (days)	Due Date Requested 6/21/2021		Phone	Sampler		
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	Company	Company	Company	D			ditation compli ck to the Eurof complicance to								Solid	Solid	Preservation Code:	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air									E-Mail jessic	Lab PM Krame	Chain of Custody Record	
				Time	sp	Sa	ance upor ins Xenco Eurofins										X	 Field Filtered Perform MS/N	100000000000000000000000000000000000000	2011/09/01/20	0.2 13.7 9.9	9	<u>e derald pro</u>			Accreditations Required (See note) NELAP - Louisiana NELAP -	E-Mail essica kramer@eurofinset.com	<u> </u> 9 >	Reco	
Coole	Receiv	Receiv	Received by		Special Instructions/QC	Sample Disposal (A f	n out su LLC Ial Xenco I								×	×	Linea Cal	8015MOD_NM/8	8015NN	1_S_Pr	ep Full	ТРН				tations I P - Loi	ner@e	Jessica	ă	
Cooler Temperature(s)	Received by	ied by	fed by	ł	nstruc	le Disposal (A f Return To Client	bcontra poraton _LC		-						×	×		300_ORGFM_2			Chlori	de				Require	eurofir			
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		-	No Po			than 1	he labou uld be b										V	tial In:				Anin	ц. ө		n Cod				Ins	
Ver	Company	Company	Fompany	1		ee may be assessed if samples are retained longer than 1 month	ratory d prought										1	struct		≥ ≷ ¢‡₽	< C -	ror ZZZ	орс N N A) Z Z	es				Environr America	
Ver: 11/01/2020	bany	bany	bany			onth) Months	ries. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco										$\ $	Special Instructions/Note		pH 4-5 other (specify)	xetone CAA	32S2O3 3SO4	Na2O4S Na2SO3	Hexane					Environment Testing America	
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 818 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	

N/A

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

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Job Number: 890-818-1

SDG Number: TE012921042

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 818

<6mm (1/4").

Job Number: 890-818-1 SDG Number: TE012921042

List Source: Eurofins Xenco, Midland

List Number: 2
Creator: Copeland, Tatiana

Login Number: 818			List Source: Eurotins Xenco, Midland	_
List Number: 2			List Creation: 06/18/21 08:40 AM	5
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			8
Samples were received on ice.	True			
Cooler Temperature is acceptable.	True			9
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			13
Sample containers have legible labels.	True			14
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			

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	34616
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

rhamlet	We have received your closure report and final C-141 for Incident #NAPP2110947284 PLU 18 BD WEST BATTERY, thank you. This closure is approved.	9/23/2021
Created By	Condition	Condition Date

CONDITIONS

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Action 34616