District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2107747725
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 4	5380	
= 1					Contact Telephone 432-221-7331	
			(assigned by OCD)			
		522 W. Mermod		3220		
			,			
			Location	of Release So	ource	
Latitude 32.5	53377			Longitude	-103.68349 Longitude	
			(NAD 83 in dec	cimal degrees to 5 decim	nal places)	
Site Name (Chistera Batt	tery		Site Type 1	Battery	
Date Release		•		API# (if app	olicable)	
	l a .:		To To			
Unit Letter	Section	Township	Range	Coun	<u>·</u>	
В	32	20S	33E	Lea	a .	
Surface Owner	r: 🔻 State	☐ Federal ☐ Tr	ribal Private (A	Name:)	
	Surface Owner: 🗷 State 🗌 Federal 🔲 Tribal 🔲 Private (Name:)					
Nature and Volume of Release						
				calculations or specific	justification for the volumes provided below)	
Crude Oil				Volume Recovered (bbls)		
× Produced	Water	Volume Release	d (bbls) 18.65		Volume Recovered (bbls) 14.00	
Is the concentration of total dissolved solids (in the produced water >10,000 mg/l?		` /	☐ Yes ☐ No			
Condensa	ite	Volume Release	d (bbls)		Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
Cause of Release The ½" bleeder connection threads separated from the 6" Victaulic tapped blind, causing fluids to release into containment and onto the ground. A vaccum truck recovered standing fluids. A third-party contractor has been						
	retained	d for remediation a	ictivities.			

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Page 2 Oil Conservation Division

I	ağ	e	2	of	1	8	7

Incident ID	NAPP2107747725
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	N/A	
19.15.29.7(A) NMAC?		
☐ Yes 🗷 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Re	esponse
The responsible	party must undertake the following actions immediatel	vuless they could create a safety hazard that would result in injury
The responsible	purity must make the years make a constraint of	The state of the s
➤ The source of the rele	ease has been stopped.	
➤ The impacted area ha	is been secured to protect human health and	the environment.
▼ Released materials has	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
★ All free liquids and red	ecoverable materials have been removed and	I managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
NA		
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release notif	ications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		AGNER G II
Printed Name: Adrian Ba	aker — — — — — — — — — — — — — — — — — — —	Title: SSHE Coordinator
Signature: Uvio	n Dako	Date: 3/18/21
email: adrian.baker@exx	conmobil.com	Telephone: 432-221-7331
OCD Only		
Received by: Ramor	na Marcus	Date: 5/4/2021

Location:	Chistera Battery		
Spill Date:	3/8/2021		
	Area 1		
Approximate Are	ea =	78.60	cu.ft.
	VOLUME OF LEAK		
Total Produced \	Water =	14.00	bbls
	Area 2		
Approximate Ar	ea =	2088.00	sq. ft.
Average Saturat	on (or depth) of spill =	1.00	inches
A Danasit	. Footon –	0.15	1
Average Porosity	/ Factor =	0.15	
	VOLUME OF LEAK		
Total Produced	Water =	4.65	bbls
	TOTAL VOLUME OF LEAK		
Total Produced	Water =	18.65	bbls
	TOTAL VOLUME RECOVERED		
Total Produced	Water =	14.00	bbls

<u>District I</u> 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 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 23751

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	23751	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
rmarcus	None

of New Mexico

Incident ID nAPP2107747725

Incident ID	nAPP2107747725
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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.

_<50 ft(bgs)				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ Yes ⊠ No				
☐ 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.				
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. \infty Field data 				
Data table of soil contaminant concentration data Depth to water determination				

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

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Incident ID	nAPP2107747725	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Kyle Littrell	Title: Environmental Manager			
Printed Name:	Date:			
email: Kyle.Littrell@exxonmobil.com	Telephone: (432)-221-7331			
OCD Only				
Received by:	Date:			

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Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be includ	led in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC	
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity	y if applicable (Note: appropriate OCD District office
□ Laboratory analyses of final sampling (Note: appropriate ODC)	District office mus	t be notified 2 days prior to final sampling)
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the Confaccordance.	a C-141 report by the nediate contamination a C-141 report does tions. The responsibilitions that existed	ne OCD does not relieve the operator of liability on that pose a threat to groundwater, surface water, not relieve the operator of responsibility for ble party acknowledges they must substantially prior to the release or their final land use in
Printed Name: Kyle Littrell	Title:	Environmental Manager
Printed Name: Kyle Littrell Signature:	Date: <u>06/03</u>	/2021
email:Kyle.Littrell@exxonmobil.com	Telephone:	432-221-7331
OCD Only		
Received by: Chad Hensley	Date: <u>08</u>	3/10/2021
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface very party of compliance with any other federal, state, or local laws and/o	vater, human health,	
Closure Approved by:	Datas (20/40/2024
	Date:(08/10/2021

wsp

WSP USA

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

June 3, 2021

District I New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

RE: Closure Request
Chistera Battery
Incident Number nAPP2107747725
Lea 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, excavation, and soil sampling activities at the Chistera Battery (Site) in Unit B, Section 32, Township 20 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number nAPP2107747725.

RELEASE BACKGROUND

On March 8, 2021, a half-inch bleeder connection separated from the 6-inch Victaulic tapped blind, resulting in the release of approximately 18.65 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 14 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on March 18, 2021. The release was assigned Incident Number nAPP2107747725.

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 estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 323150103425401, located approximately 1.87 miles southwest of the Site. The groundwater well was most recently measured in February 1976 with a reported depth to groundwater of 41 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location



is 3,587 feet above mean sea level (amsl), which is approximately 38 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent palustrine, located approximately 0.5 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (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): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On April 5, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SS01 through SS04) within and around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



Laboratory analytical results for preliminary soil samples SS01 through SS03 indicated that chloride concentrations exceeded the Closure Criteria; benzene, BTEX, and TPH concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS04, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On April 15, 2021, WSP personnel were at the Site to oversee excavation activities as indicated by visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were completed to remove the surficial staining in the release footprint and excavate the impacted soil in the areas surrounding preliminary soil samples SS01 through SS03. Excavation activities were performed using trackmounted track hoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Photographic documentation is included in Attachment 2.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 3 feet bgs. Composite soil samples FS01 through FS04 were collected from the floor of the excavation from a depth of 3 feet bgs. A second smaller excavation was completed within the release extent between the concrete runners to a depth of 1.5 feet bgs. Composite floor sample FS05 was collected from the excavation. Due to the small size of this excavation, soil sample FS05 represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation sidewall samples SW01 and SW02, and floor samples FS01 through FS05, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. The final excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation areas totaled approximately 730 square feet. A total of approximately 79 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were backfilled.



DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

WSP personnel were at the Site on May 28, 2021 to oversee delineation activities to confirm the lateral and vertical extent of the release. Five potholes (PH01 through PH05) were advanced around the release extent via backhoe to depths ranging from 2.5 feet to 3 feet bgs. Delineation soil samples were collected from the potholes from depths ranging from 1 foot to 3 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. The delineation soil samples were collected, handled, and analyzed as described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil sample locations are depicted on Figure 4.

Laboratory analytical results for delineation samples PH01/PH01A through PH05/PH05A, collected from depths ranging from 1-foot to 3 feet bgs, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the delineation soil sample analytical results, the lateral and vertical extent of the release was successfully defined.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 8, 2021 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. The excavations were backfilled with material purchased locally and recontoured to match pre-existing site conditions.

Initial response efforts which included removal of freestanding fluids via hydrovac and excavation of impacted soil have mitigated impacts at this Site. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number nAPP2107747725.

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

Sincerely,

WSP USA Inc.



White Osignids

Kalei Jennings Associate Consultant Ashley L. Ager, P.G. Managing Director, Geologist

Ashley L. Ager

cc: Kyle Littrell, XTO

Ryan Mann, New Mexico State Land Office

Attachments:

Figure 1 Site Location Map

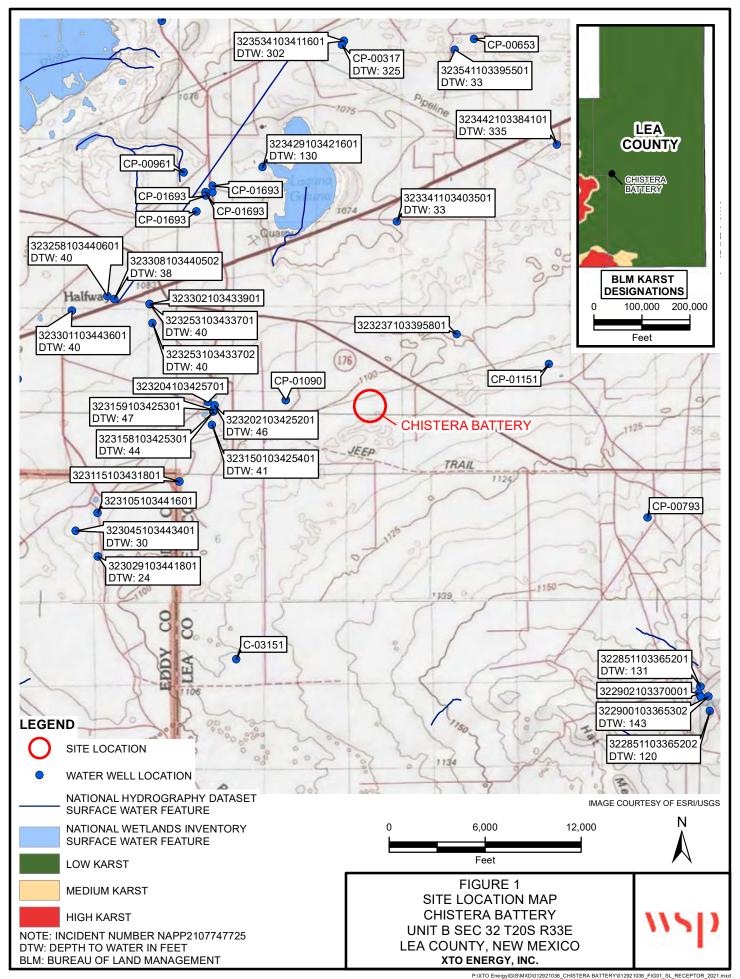
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Figure 4 Delineation Soil Sample Locations

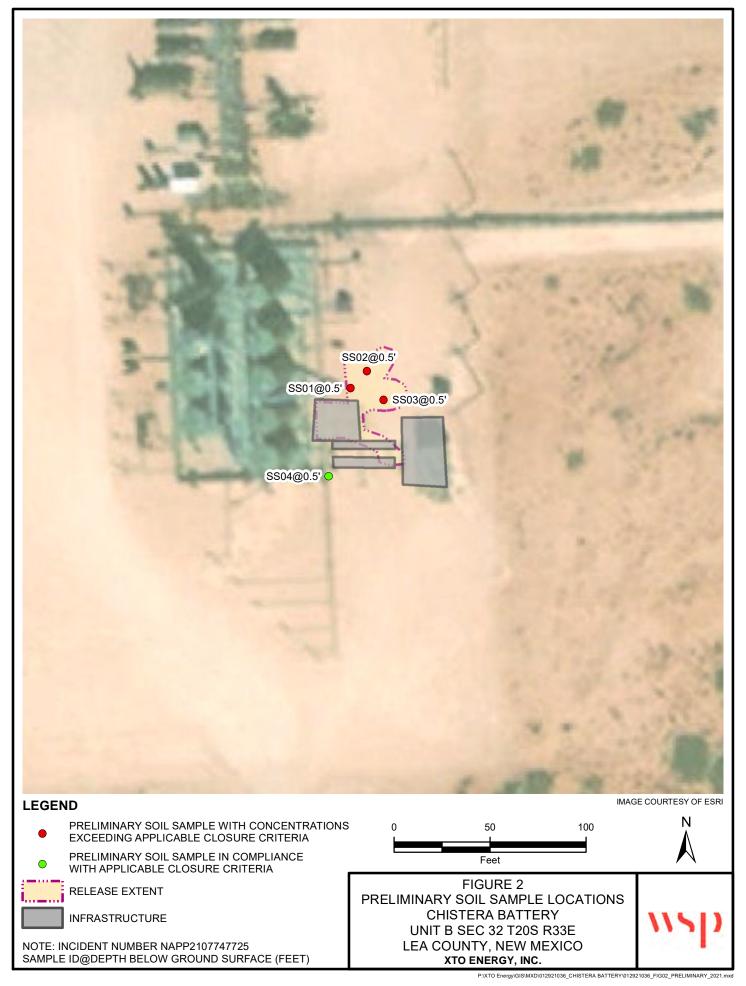
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records

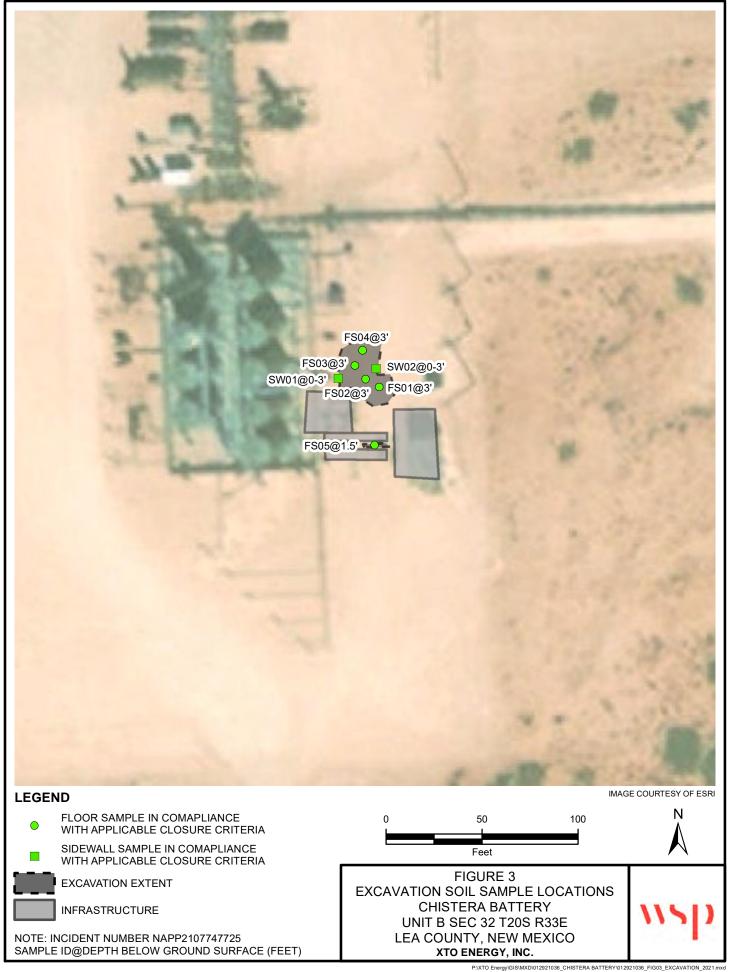
Attachment 2 Photographic Log

Attachment 3 Lithologic/Sampling Log

Attachment 4 Laboratory Analytical Reports







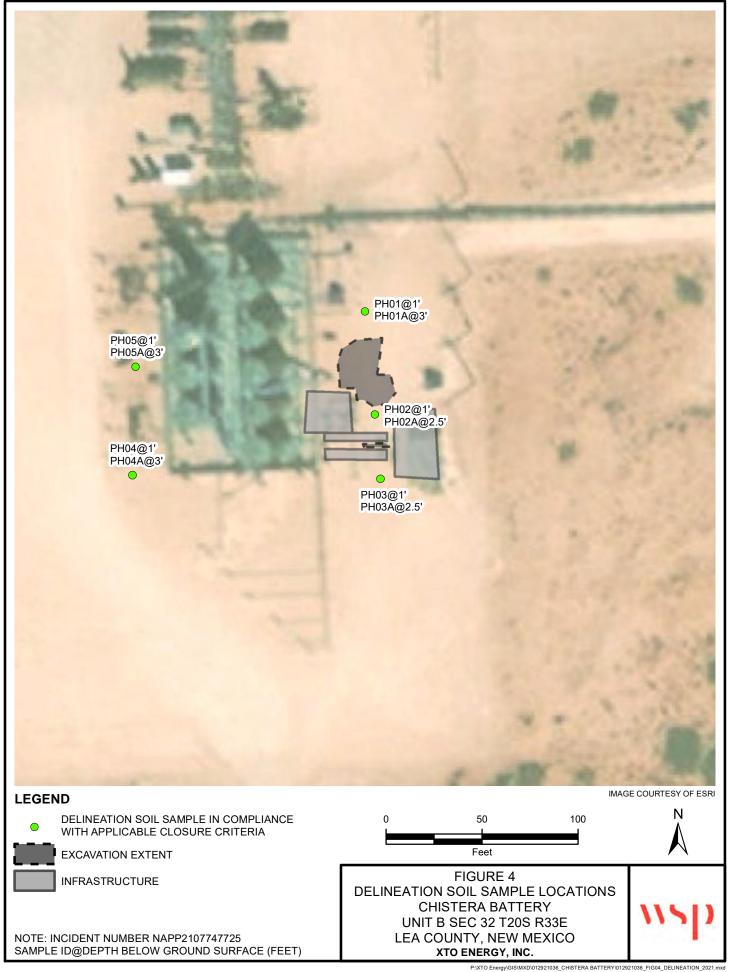


Table 1

Soil Analytical Results Christera Battery Incident Number nAPP2107747725 Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	04/05/2021	0.5	< 0.00198	< 0.00198	<49.9	60.6	<49.9	60.6	60.6	9,790
SS02	04/05/2021	0.5	< 0.00198	< 0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	11,000
SS03	04/05/2021	0.5	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	19,200
SS04	05/28/2021	0.5	< 0.00200	< 0.00399	< 50.0	55.6	<50.0	55.6	55.6	67.7
Excavation Floor Sa	imples									
FS01	04/15/2021	3	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	311
FS02	04/15/2021	3	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	32.8
FS03	04/15/2021	3	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	30.3
FS04	04/15/2021	3	<0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	285
FS05	04/15/2021	1.5	<0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	311
Excavation Sidewall	Samples									
SW01	04/15/2021	0 - 3	< 0.00200	< 0.00401	<50.0	54.6	<50.0	<50.0	54.6	165
SW02	04/15/2021	0 - 3	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	141
Delineation Samples	5									
PH01	05/28/2021	1	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	27.2
PH01A	05/28/2021	3	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<4.97
PH02	05/28/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6.03
PH02A	05/28/2021	2.5	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	39.1
PH03	05/28/2021	1	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	<4.95

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Table 1

Soil Analytical Results Christera Battery Incident Number nAPP2107747725 Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
PH03A	05/28/2021	2.5	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	< 50.0	7.61
PH04	05/28/2021	1	< 0.00200	< 0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	< 5.05
PH04A	05/28/2021	3	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	< 5.02
PH05	05/28/2021	1	< 0.00198	< 0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	<4.97
PH05A	05/28/2021	3	< 0.00198	< 0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	<4.98

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

Text impacted soil was excavated



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323150103425401

Minimum number of levels = 1

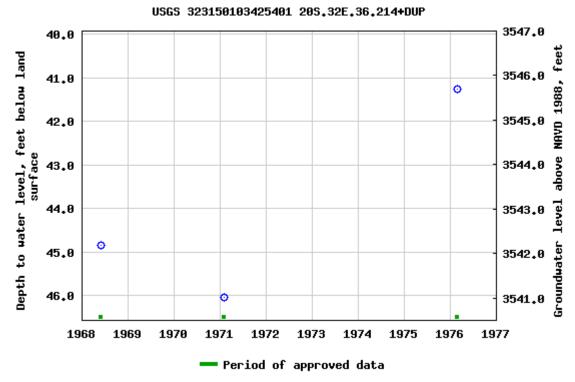
Save file of selected sites to local disk for future upload

USGS 323150103425401 20S.32E.36.214+DUP

Available data for this site	Groundwater:	Field measurements	~	GO	
Lea County, New Mexico					
Hydrologic Unit Code 1306	0011				
Latitude 32°31'50", Longi	tude 103°4	2'54" NAD27			
Land-surface elevation 3,5	87 feet abo	ve NAVD88			
This well is completed in th	ne Other ag	uifers (N9999OTI	HER)	national	aguifer.

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	PHOTOGRAPHIC LOG	
XTO ENERGY, INC.	Chistera Battery	nAPP2107747725
	Lea County, New Mexico	

 Photo No.
 Date

 1
 April 5, 2021

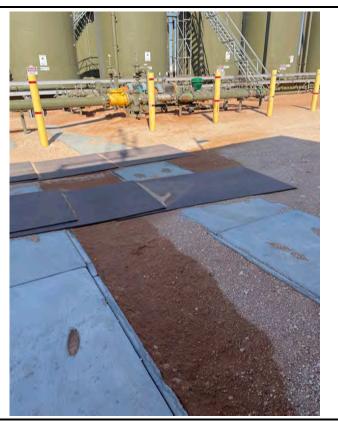
View of release on pad facing south.



 Photo No.
 Date

 2
 April 5, 2021

View of release near concrete runners.





	PHOTOGRAPHIC LOG	
XTO ENERGY, INC.	Chistera Battery	nAPP2107747725
	Lea County, New Mexico	

Photo No. Date

3 April 15, 2021

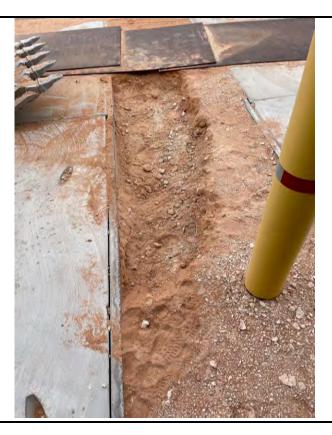
View of completed excavation, facing north.



 Photo No.
 Date

 4
 April 14, 2021

View of excavation between concrete runners facing west.





	PHOTOGRAPHIC LOG	
XTO ENERGY, INC.	Chistera Battery	nAPP2107747725
	Lea County, New Mexico	

Photo No. Date

5

May 28, 2021

View of delineation pothole PH03, facing north.



Photo No. Date

6

May 28, 2021

View delineation pothole PH04 facing west.



eceive	ed by OC	D: 6/4/	2021 .	3:32:36 P	M				DIL DILA!	I_	P	age 25
			7			P USA			BH or PH Name:		ate:	_
									PH01		/28/2021	
				Car	08 West : Isbad, Ne	Stevens S w Mexico	street 88220		Site Name: RP or Incident Number:		Chistera Battery APP2107747725	
					30,140		55220		LTE Job Number:		E012921036	
		LITH	OLOC	SIC / SOII	SAMPI	ING LO	G		Logged By WM		lethod: Backhoe	
Lat/Lo	ong:				Field Scre		-		Hole Diameter:		otal Depth:	
32.53 Comn	38627, -10	3.683681	8		Chloride,	PID			1.25'	3'		
40% (Correction	factor inc	uded in	n Chloride co	ncentration	ns						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Re	marks	
D	<179	0.1	Ν	PH01		1		0' - 3': C	aliche, moderate con	solidatio	on, some sand, tan/white)
D	<179	0	N	PH01A	- - -	2	CCHE	3' : Incre	ease consolidation to	high		
						4		TD @ 3				
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,			7			P USA			BH or PH Name:	Date:	
									PH02	5/28/2021	
	V V			5	08 West S Isbad, Ne	Stevens S	Street		Site Name:	Chistera Battery	
				Cal	isbau, Ne	w wexico	00220		RP or Incident Number: LTE Job Number:	nAPP2107747725	
		ITL		SIC / SOII	CAMPI	INGLO	G			TE012921036 Method: Backhoe	
Lat/Lo	ona:	LI I II	OLUC) / SUII	Field Scre			Logged By WM Hole Diameter:	Total Depth:		
32.53	37146, -10	3.683343	9		Chloride,				1.25'	2.5'	
Comn		factor incl	ludad ii	n Chloride co	ncentration	ns					
40 /0 (lactor inci	luucu II		nccittation	13	×	I			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholo	ogy/Remarks	
D	<179	0.1	N	PH02		1		0' - 3': C	aliche, moderate cons	solidation, some sand, tan/wh	ite
						_	CCHE		,	,	
D	<179	0.1	N	PH02A	-	2			ease consolidation to h	nigh	
ח	~1/9	U. I	IN	FIUZA		3		J . IIICIE	ase consolidation to f	ligii	
					.			TD @ 2	.5' Refusal at 2.5'		
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7			7		WS	P USA			PH03			
							Stroot		Site Name:		5/28/2021 Chistera Battery	
				Car	08 West Isbad, Ne	w Mexico	88220		RP or Incident Number:		APP2107747725	
									LTE Job Number:		ΓΕ012921036	
LITHOLOGIC / SOIL SAMPLING LOG									Logged By WM		Method: Backhoe	
Lat/Lo	ong:	0.0000	F		Field Scre				Hole Diameter:		otal Depth:	
32.53 Comn	36219, -10 nents:	3.083334	·o		Chloride,	PID			1.25'	3	y	
		factor incl	luded ir	n Chloride co	ncentration	ns						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Re	emarks	
D	<179	0.2	N	PH03		1		0' - 3': C	aliche, moderate co	nsolidati	on, some sand, tan/wh	ite
D	<179	0	N	PH03A	- -	2	CCHE	3' : Incre	ease consolidation to	o high		
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eceive	ed by OC	D: 6/4/	2021 .	3:32:36 P	M					ī	Page		
			7			P USA			BH or PH Name:		Jate:		
									PH04		5/28/2021		
				Cor	08 West : Isbad, Ne	Stevens S	Street		Site Name:		Chistera Battery		
				Cal	isbau, ive	VV IVICAICE	00220		RP or Incident Number: LTE Job Number:		APP2107747725 ΓΕ012921036		
		I ITU		SIC / SO!!	SAMDI	INGIO		Logged By WM		Method: Backhoe			
Lat/I	Lat/Long: Field Screening:								Hole Diameter:		Total Depth:		
32.53	36294, -10	3.683754	3		Chloride,				1.25')'		
Comn 40% (nents: Correction	factor incl	uded in	n Chloride co	ncentration	ns				_ _			
							X						
Moisture Content	Chloride (ppm)	ر ۳ (۳	Staining	Sample #	Sample								
lois	old:	Vapor (ppm)	tair	amp	Depth (ft bgs)	(ft bgs)	CS/		Lithology/Remarks				
≥ 0	0		S	Š	(it bgs)		SUS						
D	<179	0	N	PH04		1		0' - 0.5':	Caliche, moderate c	onsolida	ation, some sand, tan/white		
						2		0.5' - 3'	SAND, large grain, v	well arad	ded, some silt, tan/brown		
					-		Sivi						
D	<179	0	N	PH04A		3		3': Calic	he gravel present (1r	mm - 5m	nm)		
						4		TD @ 3	•				
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			7		_	P USA			BH or PH Name:		ate:		
									PH05		28/2021		
				Car	08 West Isbad, Ne	Stevens S	Street		Site Name:		histera Battery		
				Cal	isbau, NC	VV IVICAICE	- 00ZZU		RP or Incident Number: LTE Job Number:		APP2107747725 E012921036		
		ITH		aic /sou	SAMPI	INGIO		Logged By WM		ethod: Backhoe			
Lat/Lo	Lat/Long: Field Screening:								Hole Diameter:		otal Depth:		
32.53	37866, -10	3.683748	2	Chloride, PID					1.25'	3'			
Comn 40% (nents: Correction	factor incl	uded ii	n Chloride co	ncentration	าร							
							X						
Moisture Content	Chloride (ppm)	ر ۳ (۳	Staining	Sample #	Sample	Depth	Roc		1.20	/ D			
lois Cont	olh;	Vapor (ppm)	tair	amp	Depth (ft bgs)	(ft bgs)	CS/		Lithology/Remarks				
≥ 0	0		S	Š	(it bgs)		USCS/Rock Symbol						
D	<179	0.2	Ν	PH05		1		0' - 0.5':	Caliche, moderate co	onsolida	tion, some sand, tan/white		
						2		0 5' - 3'	SAND large grain w	vell grad	ed, some silt, tan/brown		
					-	† <i>*</i>	SM	0.0 - 0.	C. IIID, large grain, W	ron grau	oa, somo siit, taii/biowii		
D	<179	0	N	PH05A		3		3': Calic	he gravel present (1m	nm - 5mi	m)		
						4		TD @ 3	•				
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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-486-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Chistera Battery

For:

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

Attn: Dan Moir

SCRAMER

Authorized for release by: 4/19/2021 11:25:20 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-486-1

Project/Site: Chistera Battery

SDG: Lea County NM

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-486-1

Project/Site: Chistera Battery

SDG: Lea County NM

Job ID: 890-486-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-486-1

Comments

No additional comments.

Receipt

The samples were received on 4/5/2021 1:33 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-486-1), SS02 (890-486-2) and SS03 (890-486-3).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-1477 and analytical batch 880-1603 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

Lab Sample ID: 890-486-1 **Client Sample ID: SS01** Matrix: Solid

Date Collected: 04/05/21 10:00 Date Received: 04/05/21 13:33 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			04/07/21 16:15	04/09/21 21:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130			04/07/21 16:15	04/09/21 21:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	60.6		49.9	mg/Kg		04/06/21 15:30	04/07/21 16:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/06/21 15:30	04/07/21 16:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/06/21 15:30	04/07/21 16:40	1
Total TPH	60.6		49.9	mg/Kg		04/06/21 15:30	04/07/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			04/06/21 15:30	04/07/21 16:40	1
o-Terphenyl	90		70 - 130			04/06/21 15:30	04/07/21 16:40	1

Method: 300.0 - Anions, Ion Chror	lethod: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	9790	50.0	mg/Kg			04/17/21 18:40	10		

Client Sample ID: SS02 Lab Sample ID: 890-486-2 Date Collected: 04/05/21 10:05 **Matrix: Solid** Date Received: 04/05/21 13:33 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			04/07/21 16:15	04/09/21 22:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130			04/07/21 16:15	04/09/21 22:00	1

Eurofins Xenco, Carlsbad

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

Client Sample ID: SS02 Date Collected: 04/05/21 10:05

Lab Sample ID: 890-486-2 Matrix: Solid

Date Received: 04/05/21 13:33 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		04/06/21 15:30	04/07/21 17:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		04/06/21 15:30	04/07/21 17:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/06/21 15:30	04/07/21 17:01	1
Total TPH	<49.8	U	49.8	mg/Kg		04/06/21 15:30	04/07/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			04/06/21 15:30	04/07/21 17:01	1
o-Terphenyl	103		70 - 130			04/06/21 15:30	04/07/21 17:01	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		99.4	mg/Kg			04/17/21 18:45	20

Client Sample ID: SS03 Lab Sample ID: 890-486-3

Date Collected: 04/05/21 10:10 Matrix: Solid

Date Received: 04/05/21 13:33

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/07/21 16:15	04/09/21 22:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/07/21 16:15	04/09/21 22:26	1
1,4-Difluorobenzene (Surr)	105		70 - 130			04/07/21 16:15	04/09/21 22:26	1
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 04/06/21 15:30	Analyzed 04/07/21 17:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	04/06/21 15:30	04/07/21 17:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	04/06/21 15:30	04/07/21 17:22	1
Analyte	Result <49.9 <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	04/06/21 15:30 04/06/21 15:30	04/07/21 17:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 15:30 04/06/21 15:30 04/06/21 15:30	04/07/21 17:22 04/07/21 17:22 04/07/21 17:22	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 04/06/21 15:30	04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 04/07/21 17:22	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 Prepared	04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 Analyzed	1 1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 Prepared 04/06/21 15:30	04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 Analyzed 04/07/21 17:22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 04/06/21 15:30 Prepared 04/06/21 15:30	04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 04/07/21 17:22 Analyzed 04/07/21 17:22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-486-1

Project/Site: Chistera Battery

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-486-1	SS01	121	103	
890-486-2	SS02	129	105	
890-486-3	SS03	119	105	
LCS 880-1477/1-A	Lab Control Sample	105	103	
LCSD 880-1477/2-A	Lab Control Sample Dup	116	117	
MB 880-1477/5-A	Method Blank	70	88	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-486-1	SS01	93	90	
890-486-2	SS02	109	103	
890-486-3	SS03	96	93	
LCS 880-1389/2-A	Lab Control Sample	99	89	
LCSD 880-1389/3-A	Lab Control Sample Dup	100	87	
MB 880-1389/1-A	Method Blank	104	101	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Released to Imaging: 8/10/2021 7:19:56 AM

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Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1477/5-A

Matrix: Solid

Analysis Batch: 1603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1477

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/07/21 16:15	04/09/21 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/07/21 16:15	04/09/21 19:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/07/21 16:15	04/09/21 19:53	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/07/21 16:15	04/09/21 19:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	04/07/21 16:15	04/09/21 19:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/07/21 16:15	04/09/21 19:53	1

Lab Sample ID: LCS 880-1477/1-A

Matrix: Solid

Analysis Batch: 1603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1477

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1007		mg/Kg	_	101	70 - 130	
Toluene	0.100	0.1078		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.09955		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1115		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-1477/2-A

Matrix: Solid

Analysis Batch: 1603

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

Prep Batch: 1477

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1110	-	mg/Kg		111	70 - 130	10	35
Toluene	0.100	0.1145		mg/Kg		114	70 - 130	6	35
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2236		mg/Kg		112	70 - 130	9	35
o-Xylene	0.100	0.1223		mg/Kg		122	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery Qu	ıalifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1.4-Difluorobenzene (Surr)	117		70 - 130

Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

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

Lab Sample ID: MB 880-1389/1-A

Matrix: Solid

Analysis Batch: 1419

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1389

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/06/21 15:30	04/07/21 10:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/06/21 15:30	04/07/21 10:39	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/06/21 15:30	04/07/21 10:39	1
Total TPH	<50.0	U	50.0	mg/Kg		04/06/21 15:30	04/07/21 10:39	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	104		70 - 130	04/06/21 15:30	04/07/21 10:39	1
l	o-Terphenyl	101		70 - 130	04/06/21 15:30	04/07/21 10:39	1

Lab Sample ID: LCS 880-1389/2-A

Matrix: Solid

Analysis Batch: 1419

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1389

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1113 111 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 929.9 mg/Kg 93 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-1389/3-A

Matrix: Solid

Analysis Batch: 1419

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1389

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Analyte Unit D %Rec Limits **RPD** Limit 1000 20 1178 118 70 - 130Gasoline Range Organics mg/Kg 6 (GRO)-C6-C10 Diesel Range Organics (Over 1000 939.7 mg/Kg 94 70 - 13020 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	87		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1764/1-A

Matrix: Solid

Analysis Batch: 1932

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 04/17/21 16:28

Chloride

20

QC Sample Results

Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1764/2-A Matrix: Solid Analysis Batch: 1932						Client	Sample	ID: Lab Control Sample Prep Type: Soluble
	-	Spike	LCS	LCS				%Rec.
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits

244.8

mg/Kg

98

90 - 110

Chloride	250	242.2		mg/Kg		97	90 - 110		
Lab Sample ID: LCSD 880-1764/3-A Matrix: Solid Analysis Batch: 1932				Clier	nt Samp	ole ID: I	_ab Contro Prep	ol Sample Type: Se	•
, , , , , , , , , , , , , , , , , , , ,	Spike	LCSD L	CSD				%Rec.		RPD
Analyte	Added	Result C	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-486-1

Project/Site: Chistera Battery

SDG: Lea County NM

GC VOA

Prep Batch: 1477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-486-1	SS01	Total/NA	Solid	5035	
890-486-2	SS02	Total/NA	Solid	5035	
890-486-3	SS03	Total/NA	Solid	5035	
MB 880-1477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-486-1	SS01	Total/NA	Solid	8021B	1477
890-486-2	SS02	Total/NA	Solid	8021B	1477
890-486-3	SS03	Total/NA	Solid	8021B	1477
MB 880-1477/5-A	Method Blank	Total/NA	Solid	8021B	1477
LCS 880-1477/1-A	Lab Control Sample	Total/NA	Solid	8021B	1477
LCSD 880-1477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1477

GC Semi VOA

Prep Batch: 1389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-486-1	SS01	Total/NA	Solid	8015NM Prep	· · · · · · · · · · · · · · · · · · ·
890-486-2	SS02	Total/NA	Solid	8015NM Prep	
890-486-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-1389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-486-1	SS01	Total/NA	Solid	8015B NM	1389
890-486-2	SS02	Total/NA	Solid	8015B NM	1389
890-486-3	SS03	Total/NA	Solid	8015B NM	1389
MB 880-1389/1-A	Method Blank	Total/NA	Solid	8015B NM	1389
LCS 880-1389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1389
LCSD 880-1389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1389

HPLC/IC

Leach Batch: 1764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-486-1	SS01	Soluble	Solid	DI Leach	
890-486-2	SS02	Soluble	Solid	DI Leach	
890-486-3	SS03	Soluble	Solid	DI Leach	
MB 880-1764/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1764/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1764/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-486-1	SS01	Soluble	Solid	300.0	1764
890-486-2	SS02	Soluble	Solid	300.0	1764
890-486-3	SS03	Soluble	Solid	300.0	1764

Eurofins Xenco, Carlsbad

4/19/2021

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery

Job ID: 890-486-1

SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 1932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1764/1-A	Method Blank	Soluble	Solid	300.0	1764
LCS 880-1764/2-A	Lab Control Sample	Soluble	Solid	300.0	1764
LCSD 880-1764/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1764

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-486-1 Project/Site: Chistera Battery SDG: Lea County NM

Client Sample ID: SS01

Date Received: 04/05/21 13:33

Lab Sample ID: 890-486-1 Date Collected: 04/05/21 10:00

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/09/21 21:35	MR	XM
Total/NA	Prep	8015NM Prep			1389	04/06/21 15:30	DM	XM
Total/NA	Analysis	8015B NM		1	1419	04/07/21 16:40	AJ	XM
Soluble	Leach	DI Leach			1764	04/14/21 08:53	CH	XM
Soluble	Analysis	300.0		10	1932	04/17/21 18:40	WP	XM

Client Sample ID: SS02 Lab Sample ID: 890-486-2

Date Collected: 04/05/21 10:05 **Matrix: Solid**

Date Received: 04/05/21 13:33

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1477 04/07/21 16:15 KL XM Total/NA 8021B Analysis 1603 04/09/21 22:00 MR XM 1 Total/NA Prep 8015NM Prep ΧM 1389 04/06/21 15:30 DM Total/NA 8015B NM ΧM Analysis 1 1419 04/07/21 17:01 ΑJ Soluble ΧM Leach DI Leach 1764 04/14/21 08:53 СН Soluble Analysis 300.0 20 1932 04/17/21 18:45 WP XM

Client Sample ID: SS03 Lab Sample ID: 890-486-3

Date Collected: 04/05/21 10:10 **Matrix: Solid**

Date Received: 04/05/21 13:33

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1477	04/07/21 16:15	KL	XM
Total/NA	Analysis	8021B		1	1603	04/09/21 22:26	MR	XM
Total/NA	Prep	8015NM Prep			1389	04/06/21 15:30	DM	XM
Total/NA	Analysis	8015B NM		1	1419	04/07/21 17:22	AJ	XM
Soluble	Leach	DI Leach			1764	04/14/21 08:53	CH	XM
Soluble	Analysis	300.0		50	1932	04/17/21 18:50	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery

Job ID: 890-486-1

SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		rogram	Identification Number	Expiration Date 06-30-21	
		ELAP	T104704400-20-21		
,	. ,	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for w	
the agency does not of	fer certification.				
Analysis Method	fer certification. Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: WSP USA Inc. Project/Site: Chistera Battery Job ID: 890-486-1

SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery

Job ID: 890-486-1

SDG: Lea County NM

Lab Sample ID Client Sample ID Matrix Collected Received	Depth
890-486-1 SS01 Solid 04/05/21 10:00 04/05/21 13:33	- 0.5
890-486-2 SS02 Solid 04/05/21 10:05 04/05/21 13:33	- 0.5
890-486-3 SS03 Solid 04/05/21 10:10 04/05/21 13:33	- 0.5

Project Manager ompany Name:

Bill to: (if different)

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Company Name

3300 North Midland

79705

Conspad

ONBBETTO

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Xenco

Environment Testing

	Reporting: Level II Level III PST/UST TRRP Level IV	State of Project:	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page of		Work Order No:
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City, State ZIP:	Midland 1	C 01 61 X	City, State ZIP:		NWBOCC	Reporting: Level II Level II	Ĕ
Phone:	426- 987 - 784	- 3844	Email: Chicase M	na kalousp.com	dan moireuspican	Deliverables: EDD	ADaPT Other:
Project Name:	Chiston B	Battery	Turn Around		ANALYSIS REQUEST	ST	Preservative Codes
Project Number:	7	95	Routine Rush	Pres. Code			None: NO DI Water: H ₂ O
Project Location:	Bea Gusty		Due Date:)			Cool: Cool MeOH: Me
Sampler's Name:	l	Noter	TAT starts the day received by	ひし			
PO #:			the lab, if received by 4:30pm	80			H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	No No	Wet ice: Yes No	eters (5)			H ₃ PO ₄ : HP
Samples Received Intact:	It: Yes No	Thermometer ID:	1D: 2 M JUL -00-	ram			NaHSO 4: NABIS
Cooler Custody Seals:	Yes NO N/A	Correction Factor:	1.6/	Pa PA	890-486	Chain of Custody	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No N/A	Temperature Reading:	Reading:	E			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	mperature:	χ(NaOH+Ascorbic Acid: SAPC
Sample Identification	ication Matrix	Date Sampled	Time Depth Comp	#of TAY	()-til		Sample Comments
l DS	S	12/2/4	1000 0.5	- X X X			disort
2055	<u></u>	4/5721	1005 0.5	ーメメメ			
EPSS	S	12/5/14	1010 0.5'	ーメス			*
							C:2094361001
				alla	Ma		
Tatal 2007 (6010			13004	Al Ch Ac Ba Ba B	Co Co Co Eo Bh	Ma Mo Ni K Sa An SiO	Na Sr TI Sn 11 V Zn
Circle Method(s) ar	Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	RCRA Sb As Ba Be Co	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	i Se Ag TI U Hg: 1631/	245.1 / 7470
Notice: Signature of this document and rel of service. Eurofins Xenco will be liable on of Eurofins Xenco. A minimum charge of \$	nant and rollinguichment of se be liable only for the cost of sa he charge of \$85.00 will be appli	mples constitutes a va amples and shall not a led to each project an	itid parchase order from client com ssume any responsibility for any los d a charge of \$5 for each sample su	pany to Euronis Xenco, its affiliates a ses or expenses incurred by the clier benitted to Eurofins Xenco, but not a	Notice: Standure of this documents and collegate has a feat and the control of service. Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 \$85.00 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 negotiated.	terms and conditions s beyond the control inless previously negotiated.	
Relinquished by: (Signature)	Signature)	Received by	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	re) Received by: (Signature)	gnature) Date/Time
1 Mills	ion	lue (de	4.5.2 1333	4		
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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

eurofins

Chain of Custody

2

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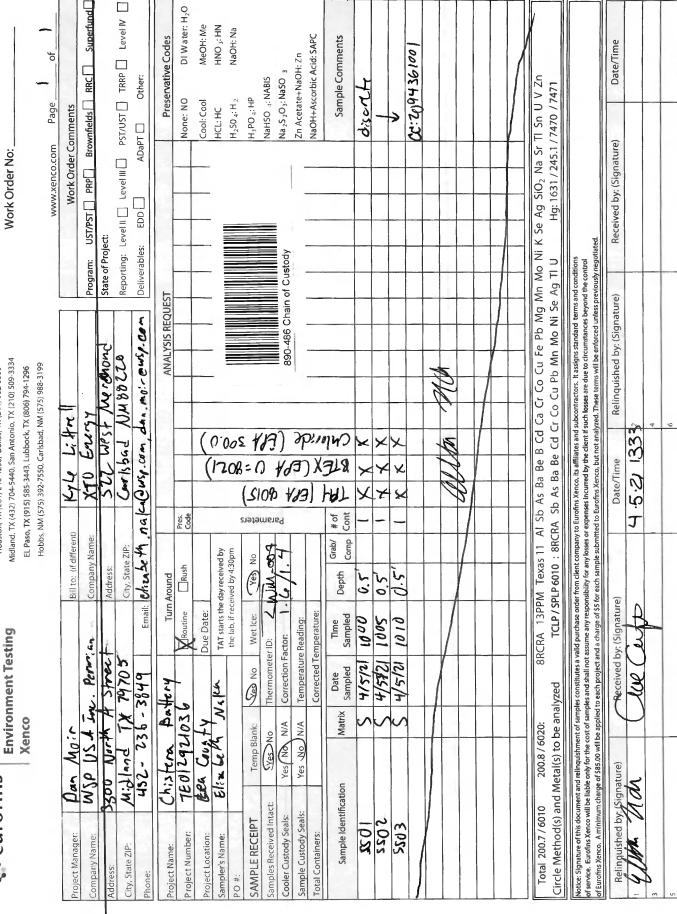
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4/19/2021

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

seurofins | Env

Envronment Testing
America

State Zip[.] TX 79701 Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. SS02 (890-486-2) SS01 (890-486-1) Chistera Battery Client Information Deliverable Requested I II III IV Other (specify) SS03 (890-486-3) Sample Identification - Client ID (Lab ID) Empty Kit Relinquished by ossible Hazard Identification 432-704-5440(Tel) Midland 1211 W Florida Ave telinquished by: elinquished by Custody Seals Intact oject Name: linquished by urofins Xenco hipping/Receiving Yes ⊳ No to Lu (Sub Contract Lab) Custody Seal No Project #: 89000004 Phone Date/Time: Date/Time: WO# Due Date Requested 4/9/2021 Primary Deliverable Rank 2 TAT Requested (days) Sample Date 4/5/21 4/5/21 4/5/21 Date Mountain 10 05 Mountain 10 10 Mountain Sample 10 00 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid E-Mail jessica kramer@eurofinset com Kramer Jessica Field Filtered Sample (Yes or No) Time Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Perform MS/MSD (Yes or No) 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks Received by × × × 300_ORGFM_28D/DI_LEACH Chloride × × × 8021B/6035FP_Calc BTEX × × × Analysis Requested State of Origin New Mexico Carrier Tracking No(s): Method of Shipment Date/Time: Total Number of containers A HCL
B NAOH
C D Acctate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid COC No: 890-149 1 890-486-1 Page 1 of 1 reservation Codes Ice
J DI Water
K EDTA
L EDA SOAR Special Instructions/Note Ver 11/01/2020 Company Company Company Acetone MCAA V pH 4-5 None AsNaO2 Na2O4S Na2SO3 Na2S2O3 H2SO4 other (specify) TSP Dodecahydrate Months

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-486-1 SDG Number: Lea County NM

List Number: 1 Creator: Clifton, Cloe

List Source: Eurofins Carlsbad Login Number: 486

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-486-1 SDG Number: Lea County NM

List Source: Eurofins Midland List Creation: 04/06/21 12:08 PM

Login Number: 486 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs Containers requiring zero headspace have no headspace or bubble is True

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-526-1

Laboratory Sample Delivery Group: Lea County Client Project/Site: Chistera Battery -TE012921036

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 4/20/2021 6:58:41 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

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

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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Client: WSP USA Inc. Project/Site: Chistera Battery -TE012921036 Laboratory Job ID: 890-526-1 SDG: Lea County

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036

SDG: Lea County

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **PQL**

Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Job ID: 890-526-1

Case Narrative

Client: WSP USA Inc.

Project/Site: Chistera Battery -TE012921036 SDG: Lea County

Job ID: 890-526-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-526-1

Receipt

The samples were received on 4/15/2021 11:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-526-1), FS02 (890-526-2), FS03 (890-526-3), FS04 (890-526-4), SW01 (890-526-5) and SW02 (890-526-6).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Lab Sample ID: 890-526-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-526-1

Project/Site: Chistera Battery -TE012921036 SDG: Lea County

Client Sample ID: FS01

Date Collected: 04/15/21 09:30 Date Received: 04/15/21 11:54

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/16/21 15:25	04/19/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			04/16/21 15:25	04/19/21 13:56	1
1,4-Difluorobenzene (Surr)	110		70 - 130			04/16/21 15:25	04/19/21 13:56	1
Method: 8015B NM - Diesel Rang		RO) (GC)						
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>		Analyzed 04/17/21 15:59	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	Prepared 04/16/21 12:09	04/17/21 15:59	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u> </u>	Prepared 04/16/21 12:09	04/17/21 15:59	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	Qualifier U U U	RL 49.9	mg/Kg	<u>D</u>	Prepared 04/16/21 12:09 04/16/21 12:09	04/17/21 15:59 04/17/21 15:59	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 15:59 04/17/21 15:59 04/17/21 15:59	1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 15:59 04/17/21 15:59 04/17/21 15:59 04/17/21 15:59	1 1 1 1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	ge Organics (D) Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	RL 49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared	04/17/21 15:59 04/17/21 15:59 04/17/21 15:59 04/17/21 15:59 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	ge Organics (D) Result <49.9 <49.9 <49.9 <49.9 <49.9 **Recovery** 110 102	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u> </u>	Prepared 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared 04/16/21 12:09	04/17/21 15:59 04/17/21 15:59 04/17/21 15:59 04/17/21 15:59 Analyzed 04/17/21 15:59	Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: FS02 Lab Sample ID: 890-526-2

4.95

mg/Kg

311

Date Collected: 04/15/21 10:10 Date Received: 04/15/21 11:54

Sample Depth: - 3

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/16/21 15:25	04/19/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			04/16/21 15:25	04/19/21 14:17	
1,4-Difluorobenzene (Surr)	112		70 - 130			04/16/21 15:25	04/19/21 14:17	1

Eurofins Xenco, Carlsbad

04/19/21 19:14

Matrix: Solid

Lab Sample ID: 890-526-2

Client Sample Results

Client: WSP USA Inc.

Project/Site: Chistera Battery -TE012921036

Job ID: 890-526-1

SDG: Lea County

Client Sample ID: FS02

Date Collected: 04/15/21 10:10 Date Received: 04/15/21 11:54

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/16/21 12:09	04/17/21 17:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/16/21 12:09	04/17/21 17:04	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/16/21 12:09	04/17/21 17:04	1
Total TPH	<49.9	U	49.9	mg/Kg		04/16/21 12:09	04/17/21 17:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			04/16/21 12:09	04/17/21 17:04	1
o-Terphenyl	102		70 - 130			04/16/21 12:09	04/17/21 17:04	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		4.98	mg/Kg			04/19/21 19:19	

Client Sample ID: FS03

Date Collected: 04/15/21 10:15

Lab Sample ID: 890-526-3

Matrix: Solid

Date Collected: 04/15/21 10:15 Date Received: 04/15/21 11:54

Date Received: 04/15/21

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/16/21 15:25	04/19/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			04/16/21 15:25	04/19/21 14:38	1
1,4-Difluorobenzene (Surr)	113		70 - 130			04/16/21 15:25	04/19/21 14:38	1
Analyte	•	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared 04/16/21 12:09	Analyzed 04/17/21 17:26	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	04/16/21 12:09	04/17/21 17:26 04/17/21 17:26	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 17:26 04/17/21 17:26 04/17/21 17:26	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U	49.8	mg/Kg	<u>D</u>	04/16/21 12:09	04/17/21 17:26 04/17/21 17:26	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 17:26 04/17/21 17:26 04/17/21 17:26	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 04/17/21 17:26	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U U	49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared	04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared 04/16/21 12:09	04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 Analyzed 04/17/21 17:26	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared 04/16/21 12:09	04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 04/17/21 17:26 Analyzed 04/17/21 17:26	Dil Fac

Eurofins Xenco, Carlsbad

9

<u>5</u>

6

8

10

12

Lab Sample ID: 890-526-4

04/16/21 12:09

04/17/21 17:47

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-526-1

Project/Site: Chistera Battery -TE012921036 SDG: Lea County

Client Sample ID: FS04

Date Collected: 04/15/21 10:20 Date Received: 04/15/21 11:54

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/16/21 15:25	04/19/21 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			04/16/21 15:25	04/19/21 14:59	1
1,4-Difluorobenzene (Surr)	117		70 - 130			04/16/21 15:25	04/19/21 14:59	1
Method: 8015B NM - Diesel Rang	0							
motifica. Co lob Min - Diesel Rang	ge Organics (טו	RO) (GC)						
Analyte	• •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 04/16/21 12:09	Analyzed 04/17/21 17:47	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U			<u>D</u>	<u>·</u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.9	mg/Kg	<u>D</u>	04/16/21 12:09	04/17/21 17:47	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	04/16/21 12:09	04/17/21 17:47	1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 17:47 04/17/21 17:47 04/17/21 17:47	1 1

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 285 4.99 04/19/21 19:39 Chloride mg/Kg **Client Sample ID: SW01** Lab Sample ID: 890-526-5

70 - 130

106

Date Collected: 04/15/21 09:50 Date Received: 04/15/21 11:54

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0 - 3

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/16/21 15:25	04/19/21 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			04/16/21 15:25	04/19/21 15:20	1
1,4-Difluorobenzene (Surr)	114		70 - 130			04/16/21 15:25	04/19/21 15:20	1

Lab Sample ID: 890-526-5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-526-1

Project/Site: Chistera Battery -TE012921036 SDG: Lea County

Client Sample ID: SW01 Date Collected: 04/15/21 09:50

Date Received: 04/15/21 11:54

Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	54.6		50.0	mg/Kg		04/16/21 12:09	04/17/21 18:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/16/21 12:09	04/17/21 18:08	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 12:09	04/17/21 18:08	1
Total TPH	54.6		50.0	mg/Kg		04/16/21 12:09	04/17/21 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			04/16/21 12:09	04/17/21 18:08	1
o-Terphenyl	92		70 - 130			04/16/21 12:09	04/17/21 18:08	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.98	mg/Kg			04/19/21 19:44	

Client Sample ID: SW02 Lab Sample ID: 890-526-6 Matrix: Solid

Date Collected: 04/15/21 10:05 Date Received: 04/15/21 11:54

Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/16/21 15:25	04/19/21 15:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			04/16/21 15:25	04/19/21 15:40	1
1,4-Difluorobenzene (Surr)	113		70 - 130			04/16/21 15:25	04/19/21 15:40	1
Method: 8015B NM - Diesel Rang		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier			<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 04/16/21 12:09	Analyzed 04/17/21 18:30	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	04/16/21 12:09	04/17/21 18:30 04/17/21 18:30	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 18:30 04/17/21 18:30 04/17/21 18:30	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	04/16/21 12:09	04/17/21 18:30 04/17/21 18:30	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 18:30 04/17/21 18:30 04/17/21 18:30	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 04/17/21 18:30	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared	04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 Analyzed	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared 04/16/21 12:09	04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 Analyzed 04/17/21 18:30	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 Prepared 04/16/21 12:09	04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 04/17/21 18:30 Analyzed 04/17/21 18:30	Dil Fac

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery -TE012921036

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-526-1	FS01	93	110	
90-526-1 MS	FS01	93	109	
90-526-1 MSD	FS01	91	116	
90-526-2	FS02	96	112	
90-526-3	FS03	95	113	
90-526-4	FS04	97	117	
90-526-5	SW01	89	114	
90-526-6	SW02	94	113	
CS 880-1901/1-A	Lab Control Sample	89	108	
CSD 880-1901/2-A	Lab Control Sample Dup	88	108	
1B 880-1901/5-A	Method Blank	109	89	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-526-1	FS01	110	102	
890-526-1 MS	FS01	106	88	
890-526-1 MSD	FS01	121	96	
890-526-2	FS02	108	102	
890-526-3	FS03	95	89	
890-526-4	FS04	117	106	
890-526-5	SW01	102	92	
890-526-6	SW02	103	92	
LCS 880-1894/2-A	Lab Control Sample	95	78	
LCSD 880-1894/3-A	Lab Control Sample Dup	117	101	
MB 880-1894/1-A	Method Blank	93	91	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036 SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

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

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1901

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

MB MB

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

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

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1901

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

Cnika

LCS LCS

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

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

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1901

S	Spike Lo	SD LCSD				%Rec.		RPD
Analyte A	dded Re	ult Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene 0	0.09	251	mg/Kg		93	70 - 130	1	35
Toluene 0	0.09	184	mg/Kg		95	70 - 130	5	35
Ethylbenzene 0	0.100 0.09	385	mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene 0	0.200 0.1	358	mg/Kg		93	70 - 130	6	35
o-Xylene 0	0.09)71	mg/Kg		91	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1.4-Difluorobenzene (Surr)	108	70 ₋ 130

Lab Sample ID: 890-526-1 MS

Matrix: Solid

Analysis Batch: 1966

Client Sample ID: FS01 Prep Type: Total/NA Prep Batch: 1901

Analysis Baton. 1000										p Date	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.0998	0.08147		mg/Kg		82	70 - 130		

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036 SDG: Lea County

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

Lab Sample ID: 890-526-1 MS **Matrix: Solid**

Analysis Batch: 1966

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 1901

Prep Type: Total/NA

2

2

35

35

Alialysis Datcii. 1300									Fieb Datcii. 1301
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Toluene	<0.00200	U	0.0998	0.08380		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.08210		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1617		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0998	0.07945		mg/Kg		80	70 - 130
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						
 Lab Sample ID: 890-526-1 MS	SD								Client Sample ID: FS01

Analysis Batch: 1966 Prep Batch: 1901 MSD MSD RPD Sample Sample Spike %Rec. Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** 0.0994 0.07631 35 Benzene <0.00200 mg/Kg 77 70 - 130 Toluene <0.00200 0.0994 0.08493 70 - 130 35 U mg/Kg 85

0.08037

0.1591

0.07872

mg/Kg

mg/Kg

mg/Kg

0.0994

0.199

o-Xylene <0.00200 U 0.0994 MSD MSD Surrogate %Recovery Qualifier Limits

<0.00200 U

<0.00401 U

70 - 130 4-Bromofluorobenzene (Surr) 91 1,4-Difluorobenzene (Surr) 116 70 - 130

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

Lab Sample ID: MB 880-1894/1-A

Matrix: Solid

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 1923

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

70 - 130

70 - 130

70 - 130

81

80

79

Prep Batch: 1894

MB MB Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 04/16/21 12:09 04/17/21 14:55 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 04/16/21 12:09 04/17/21 14:55 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 04/16/21 12:09 mg/Kg 04/17/21 14:55 Total TPH <50.0 U 50.0 04/16/21 12:09 04/17/21 14:55 mg/Kg

MB MB %Recovery Surrogate Qualifier Limits Prepared Dil Fac Analyzed 1-Chlorooctane 93 70 - 130 04/16/21 12:09 04/17/21 14:55 o-Terphenyl 91 70 - 130 04/16/21 12:09 04/17/21 14:55

Lab Sample ID: LCS 880-1894/2-A

Matrix: Solid

Analysis Batch: 1923

LCS LCS Spike Analyte Added Qualifier Unit %Rec Result 1000 1058 106 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Batch: 1894

Client Sample ID: Lab Control Sample

%Rec.

Limits

70 - 130

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036

SDG: Lea County

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

Lab Sample ID: LCS 880-1894/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 1923			Prep Batch: 1894
	Spike	LCS LCS	%Rec.
Analyte	habbA	Posult Qualifier III	nit D %Pac Limits

Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Diesel Range Organics (Over	1000	838.4	mg/Kg		84	70 - 130
C10-C28)						

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: LCSD 880-1894/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 1923							Pre	p Batch:	: 1894
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1107		mg/Kg		111	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	961.7		mg/Kg		96	70 - 130	14	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 117 70 - 130 o-Terphenyl 101

Lab Sample ID: 890-526-1 MS **Client Sample ID: FS01** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 1923 Prep Batch: 1894

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1070		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	852.1		mg/Kg		85	70 - 130

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-526-1 MSD **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 1923 Prep Batch: 1894

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	998	1199		mg/Kg		118	70 - 130	11	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	998	949.8		mg/Kg		95	70 - 130	11	20
C10-C28)											

C10-C28)	16.6			0.0.0	
	MSD	MSD			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	121		70 - 130		
o-Terphenyl	96		70 - 130		

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036

SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1942/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 2014

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/19/21 17:32	1

Lab Sample ID: LCS 880-1942/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 2014

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

Lab Sample ID: LCSD 880-1942/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 2014

LCSD LCSD %Rec. RPD Spike Limit Analyte Added Result Qualifier Unit Limits **RPD** Chloride 250 258.1 103 90 - 110 mg/Kg

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036 SDG: Lea County

GC VOA

Prep Batch: 1901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-526-1	FS01	Total/NA	Solid	5035	
890-526-2	FS02	Total/NA	Solid	5035	
890-526-3	FS03	Total/NA	Solid	5035	
890-526-4	FS04	Total/NA	Solid	5035	
890-526-5	SW01	Total/NA	Solid	5035	
890-526-6	SW02	Total/NA	Solid	5035	
MB 880-1901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-526-1 MS	FS01	Total/NA	Solid	5035	
890-526-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 1966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-526-1	FS01	Total/NA	Solid	8021B	1901
890-526-2	FS02	Total/NA	Solid	8021B	1901
890-526-3	FS03	Total/NA	Solid	8021B	1901
890-526-4	FS04	Total/NA	Solid	8021B	1901
890-526-5	SW01	Total/NA	Solid	8021B	1901
890-526-6	SW02	Total/NA	Solid	8021B	1901
MB 880-1901/5-A	Method Blank	Total/NA	Solid	8021B	1901
LCS 880-1901/1-A	Lab Control Sample	Total/NA	Solid	8021B	1901
LCSD 880-1901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1901
890-526-1 MS	FS01	Total/NA	Solid	8021B	1901
890-526-1 MSD	FS01	Total/NA	Solid	8021B	1901

GC Semi VOA

Prep Batch: 1894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-526-1	FS01	Total/NA	Solid	8015NM Prep	
890-526-2	FS02	Total/NA	Solid	8015NM Prep	
890-526-3	FS03	Total/NA	Solid	8015NM Prep	
890-526-4	FS04	Total/NA	Solid	8015NM Prep	
890-526-5	SW01	Total/NA	Solid	8015NM Prep	
890-526-6	SW02	Total/NA	Solid	8015NM Prep	
MB 880-1894/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1894/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-526-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-526-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-526-1	FS01	Total/NA	Solid	8015B NM	1894
890-526-2	FS02	Total/NA	Solid	8015B NM	1894
890-526-3	FS03	Total/NA	Solid	8015B NM	1894
890-526-4	FS04	Total/NA	Solid	8015B NM	1894
890-526-5	SW01	Total/NA	Solid	8015B NM	1894
890-526-6	SW02	Total/NA	Solid	8015B NM	1894
MB 880-1894/1-A	Method Blank	Total/NA	Solid	8015B NM	1894

QC Association Summary

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036

SDG: Lea County

GC Semi VOA (Continued)

Analysis Batch: 1923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-1894/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1894
LCSD 880-1894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1894
890-526-1 MS	FS01	Total/NA	Solid	8015B NM	1894
890-526-1 MSD	FS01	Total/NA	Solid	8015B NM	1894

HPLC/IC

Leach Batch: 1942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-526-1	FS01	Soluble	Solid	DI Leach	
890-526-2	FS02	Soluble	Solid	DI Leach	
890-526-3	FS03	Soluble	Solid	DI Leach	
890-526-4	FS04	Soluble	Solid	DI Leach	
890-526-5	SW01	Soluble	Solid	DI Leach	
890-526-6	SW02	Soluble	Solid	DI Leach	
MB 880-1942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-526-1	FS01	Soluble	Solid	300.0	1942
890-526-2	FS02	Soluble	Solid	300.0	1942
890-526-3	FS03	Soluble	Solid	300.0	1942
890-526-4	FS04	Soluble	Solid	300.0	1942
890-526-5	SW01	Soluble	Solid	300.0	1942
890-526-6	SW02	Soluble	Solid	300.0	1942
MB 880-1942/1-A	Method Blank	Soluble	Solid	300.0	1942
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	300.0	1942
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1942

Client: WSP USA Inc.

Project/Site: Chistera Battery -TE012921036

SDG: Lea County

Job ID: 890-526-1

Client Sample ID: FS01

Date Collected: 04/15/21 09:30 Date Received: 04/15/21 11:54

Lab Sample ID: 890-526-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 13:56	KL	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 15:59	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 19:14	WP	XM

Lab Sample ID: 890-526-2

Matrix: Solid

Date Collected: 04/15/21 10:10

Client Sample ID: FS02

Date Received: 04/15/21 11:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 14:17	KL	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 17:04	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 19:19	WP	XM

Client Sample ID: FS03 Lab Sample ID: 890-526-3

Matrix: Solid

Date Collected: 04/15/21 10:15 Date Received: 04/15/21 11:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 14:38	KL	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 17:26	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 19:34	WP	XM

Client Sample ID: FS04 Lab Sample ID: 890-526-4 Date Collected: 04/15/21 10:20 **Matrix: Solid**

Date Received: 04/15/21 11:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 14:59	KL	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 17:47	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 19:39	WP	XM

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036 SDG: Lea County

Client Sample ID: SW01

Date Received: 04/15/21 11:54

Lab Sample ID: 890-526-5 Date Collected: 04/15/21 09:50

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 XM Total/NA Prep 1901 04/16/21 15:25 MR Total/NA Analysis 8021B 1 1966 04/19/21 15:20 KL ΧM Total/NA Prep 8015NM Prep 1894 04/16/21 12:09 DM ΧM Total/NA Analysis 8015B NM 1 1923 04/17/21 18:08 AJ XMSoluble Leach DI Leach 1942 04/17/21 18:36 СН ΧM Soluble Analysis 300.0 1 2014 04/19/21 19:44 WP ΧM

Client Sample ID: SW02 Lab Sample ID: 890-526-6 Date Collected: 04/15/21 10:05

Date Received: 04/15/21 11:54

Matrix: Solid

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1901	04/16/21 15:25	MR	XM
Total/NA	Analysis	8021B		1	1966	04/19/21 15:40	KL	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 18:30	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 19:49	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-526-1 Project/Site: Chistera Battery -TE012921036

SDG: Lea County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21
The following analytee are	included in this report, but the laboratory is not co	rtified by the gaverning outbority. This list wa	av ingluda analytaa far yk

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

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

Method Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery -TE012921036

Job ID: 890-526-1

SDG: Lea County

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

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12

Sample Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery -TE012921036

Job ID: 890-526-1

SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-526-1	FS01	Solid	04/15/21 09:30	04/15/21 11:54	- 3
890-526-2	FS02	Solid	04/15/21 10:10	04/15/21 11:54	- 3
890-526-3	FS03	Solid	04/15/21 10:15	04/15/21 11:54	- 3
890-526-4	FS04	Solid	04/15/21 10:20	04/15/21 11:54	- 3
890-526-5	SW01	Solid	04/15/21 09:50	04/15/21 11:54	0 - 3
890-526-6	SW02	Solid	04/15/21 10:05	04/15/21 11:54	0 - 3

Eurofins Xenco. A minimum charge of \$85.00 wi service. Eurofins Xenco will be liable only for the

Relinquished by: (Signature)

Circle Method(s) and Metal(s) to

Total 200.7 / 6010

20MS SWOI

eurofins **Environment Testing Xenco**

Project Manager:

ompany Name:

Address:

City, State ZIP:

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

ample Custody Seals:

Total Containers:

FSOI

FSOr

Sample Identification

F503 FS04

Sampler's Name: Project Location: Project Number: Project Name:

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

SAR Permica Office Company Name: VT Company N			to Mah			3			
SAR Para is a Wire Company Name: The City Company Name: The City Company Name: The City Company Name: The City Company Name: The City State 21P: Carls bad JM 89/22D Sate of Project: Sale of Pr					این پر				
Suit Company Name: XTO Energy Name: EDD ADAPT Other: Preservative Codes Pre	mple Comments	Sar		BTE	Grab/ Comp	-	S _a		ification
Bill to: (If different) The Company Name: XTO Emerge YTO YTO Emerge YTO	IABIS IASO 3 +NaOH	Cool: Coo HCL: HC H ₂ SO ₄ : H H ₃ PO ₄ : H NaHSO ₄ Na ₂ S ₂ O ₃ Zn Aceta	890-526 Chain of Custody	EX (EPA 0=80U)		Due Date: TAT starts the day the lab, if received wet ice: Wet ice: Wet ice: Reading:	Ves No Thermomete Correction Fr Temperature Corrected Te	Lea Could Temp Blank: Yes No NIA Yes No NIA	Set.
State of Project: Company Name: STO Email: Dar. Mo; rewst. Car. Company Name: STO Days + Merminal Program: UST/PST PRP Brownfields RRC State of Project: Reporting: Level III Level III PST/UST TRRP Deliverables: EDD ADaPT Other:	ervative	Pre None: N.	ANALYSIS REQUEST		sh	rn Aro	Bu#24	129210	=
Office Company Name: XTO EMPTY Program: UST/PST PRP Brownfields RRC State of Project:	11	D Level III AD	89,120	bad	, State ZIP:		20197	32.236.	43
	RRC	Work Order (Mermond	27 07 27	to: (if different) npany Name: Iress:			USA Per	WSP 8300

Work Order No:

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-526-1 SDG Number: Lea County

Login Number: 526 List Source: Eurofins Carlsbad

List Number: 1

Creator: Ordonez, Gabby

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-526-1 SDG Number: Lea County

List Source: Eurofins Midland
List Number: 2
List Creation: 04/16/21 11:41 AM

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	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-527-1

Laboratory Sample Delivery Group: TE012921036

Client Project/Site: Chistera Battery

For:

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

Attn: Dan Moir

SCRAMER

Authorized for release by: 4/20/2021 7:01:23 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/10/2021 7:19:56 AM

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.

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Client: WSP USA Inc.

Project/Site: Chistera Battery

Laboratory Job ID: 890-527-1

SDG: TE012921036

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-527-1 Project/Site: Chistera Battery SDG: TE012921036

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit **PRES**

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Chistera Battery

Job ID: 890-527-1 SDG: TE012921036

Job ID: 890-527-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-527-1

Comments

No additional comments.

Receipt

The sample was received on 4/15/2021 11:54 AM. 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 1.0° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS05 (890-527-1).

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

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

Organic Prep

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

VOA Prep

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

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Matrix: Solid

Lab Sample ID: 890-527-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-527-1 Project/Site: Chistera Battery SDG: TE012921036

Client Sample ID: FS05

Date Collected: 04/15/21 10:25 Date Received: 04/15/21 11:54

Sample Depth: - 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/16/21 12:15	04/16/21 20:39	1
_	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate								
	112		70 - 130			04/16/21 12:15	04/16/21 20:39	1
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	<u>-</u>		70 - 130 70 - 130			04/16/21 12:15 04/16/21 12:15	04/16/21 20:39 04/16/21 20:39	1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	112	RO) (GC)						1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang	112 104 ge Organics (DI	RO) (GC) Qualifier		Unit	D			,
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	112 104 ge Organics (DI	Qualifier	70 - 130	Unit mg/Kg	<u>D</u>	04/16/21 12:15	04/16/21 20:39	,
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	112 104 ge Organics (DI Result <50.0	Qualifier U	70 - 130 RL 50.0	mg/Kg	<u>D</u>	04/16/21 12:15 Prepared 04/16/21 12:09	04/16/21 20:39 Analyzed 04/17/21 18:51	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	112 104 ge Organics (DI Result	Qualifier U	70 - 130		<u>D</u>	04/16/21 12:15 Prepared	04/16/21 20:39 Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	112 104 ge Organics (DI Result <50.0	Qualifier U	70 - 130 RL 50.0	mg/Kg	<u>D</u>	04/16/21 12:15 Prepared 04/16/21 12:09	04/16/21 20:39 Analyzed 04/17/21 18:51	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	112 104 ge Organics (DI Result <50.0	Qualifier U U	70 - 130 RL 50.0	mg/Kg	<u>D</u>	04/16/21 12:15 Prepared 04/16/21 12:09 04/16/21 12:09	Analyzed 04/17/21 18:51 04/17/21 18:51	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	112 104 ge Organics (DI Result <50.0 <50.0	Qualifier U U U U	70 - 130 RL 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/16/21 12:15 Prepared 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	Analyzed 04/17/21 18:51 04/17/21 18:51 04/17/21 18:51	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	112 104 ge Organics (DI Result <50.0 <50.0 <50.0	Qualifier U U U U	70 - 130 RL 50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	D_	04/16/21 12:15 Prepared 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09 04/16/21 12:09	Analyzed 04/17/21 18:51 04/17/21 18:51 04/17/21 18:51 04/17/21 18:51	Dil Fac 1 1

Eurofins Xenco, Carlsbad

Prepared Analyte Result Qualifier RL Unit Analyzed Dil Fac 4.97 04/19/21 19:54 Chloride 311 mg/Kg

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-527-1

Project/Site: Chistera Battery

SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	· ·
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-527-1	FS05	112	104	
LCS 880-1895/1-A	Lab Control Sample	100	106	
LCSD 880-1895/2-A	Lab Control Sample Dup	101	105	
MB 880-1895/5-A	Method Blank	99	103	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-527-1	FS05	123	107	
LCS 880-1894/2-A	Lab Control Sample	95	78	
LCSD 880-1894/3-A	Lab Control Sample Dup	117	101	
MB 880-1894/1-A	Method Blank	93	91	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-527-1 Project/Site: Chistera Battery SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

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

Matrix: Solid

Analysis Batch: 1905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1895

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

MB MB

Surrogate	%Recovery 0	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	04/16/21 12:15	04/16/21 19:50	1
1,4-Difluorobenzene (Surr)	103	70 - 130	04/16/21 12:15	04/16/21 19:50	1

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

Matrix: Solid

Analysis Batch: 1905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1895

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

LCS LCS

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

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

Matrix: Solid

Analysis Batch: 1905

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

Prep Batch: 1895

S	Spike LC	D LCSD				%Rec.		RPD
Analyte Ac	dded Res	ult Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene 0	0.084	46	mg/Kg		84	70 - 130	3	35
Toluene 0	0.090	74	mg/Kg		91	70 - 130	6	35
Ethylbenzene 0	0.100 0.094	13	mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene 0	0.200 0.19	26	mg/Kg		96	70 - 130	8	35
o-Xylene 0	0.094	73	mg/Kg		95	70 - 130	7	35

LCSD LCSD

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

Client: WSP USA Inc. Job ID: 890-527-1 Project/Site: Chistera Battery SDG: TE012921036

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

Lab Sample ID: MB 880-1894/1-A

Matrix: Solid

Analysis Batch: 1923

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1894

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/16/21 12:09	04/17/21 14:55	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/16/21 12:09	04/17/21 14:55	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/21 12:09	04/17/21 14:55	1
Total TPH	<50.0	U	50.0	mg/Kg		04/16/21 12:09	04/17/21 14:55	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/16/21 12:09	04/17/21 14:55	1
o-Terphenyl	91		70 - 130	04/16/21 12:09	04/17/21 14:55	1

Lab Sample ID: LCS 880-1894/2-A

Matrix: Solid

Analysis Batch: 1923

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1894

	Бріке	LCS I	LUS			%Rec.	
Analyte	Added	Result (Qualifier Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1058	mg/Kg		106	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	838.4	mg/Kg		84	70 - 130	
C10-C28)							

Chiles

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: LCSD 880-1894/3-A

Matrix: Solid

Analysis Batch: 1923

Client S	Sample	ID: Lah	Control	Sample	Dun
OHETH C	Jaiiibie	ID. Lab	COLLIG	Jailible	Dub

Prep Type: Total/NA

Prep Batch: 1894

LCSD LCSD %Rec. RPD Spike Added Result Qualifier Analyte Unit %Rec Limits **RPD** Limit 1000 1107 111 70 - 130 5 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 961.7 mg/Kg 96 70 - 13014 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 117 70 - 130 1-Chlorooctane 70 - 130 101 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

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

Matrix: Solid

Analysis Batch: 2014

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed <5.00 U Chloride 5.00 mg/Kg 04/19/21 17:32

Client: WSP USA Inc. Job ID: 890-527-1 Project/Site: Chistera Battery SDG: TE012921036

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1942/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 2014

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

Lab Sample ID: LCSD 880-1942/3-A **Client Sample ID: Lab Control Sample Dup** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 2014

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	258.1		mg/Kg		103	90 - 110	1	20	

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-527-1

Project/Site: Chistera Battery

SDG: TE012921036

GC VOA

Prep Batch: 1895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-527-1	FS05	Total/NA	Solid	5035	
MB 880-1895/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1895/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1895/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-527-1	FS05	Total/NA	Solid	8021B	1895
MB 880-1895/5-A	Method Blank	Total/NA	Solid	8021B	1895
LCS 880-1895/1-A	Lab Control Sample	Total/NA	Solid	8021B	1895
LCSD 880-1895/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1895

GC Semi VOA

Prep Batch: 1894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-527-1	FS05	Total/NA	Solid	8015NM Prep	
MB 880-1894/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1894/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1923

Lab Sample ID 890-527-1	Client Sample ID FS05	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 1894
MB 880-1894/1-A	Method Blank	Total/NA	Solid	8015B NM	1894
LCS 880-1894/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1894
LCSD 880-1894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1894

HPLC/IC

Leach Batch: 1942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-527-1	FS05	Soluble	Solid	DI Leach	
MB 880-1942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-527-1	FS05	Soluble	Solid	300.0	1942
MB 880-1942/1-A	Method Blank	Soluble	Solid	300.0	1942
LCS 880-1942/2-A	Lab Control Sample	Soluble	Solid	300.0	1942
LCSD 880-1942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1942

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Chistera Battery

Job ID: 890-527-1
SDG: TE012921036

Client Sample ID: FS05

Lab Sample ID: 890-527-1

Matrix: Solid

Date Collected: 04/15/21 10:25 Date Received: 04/15/21 11:54

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1895	04/16/21 12:15	MR	XM
Total/NA	Analysis	8021B		1	1905	04/16/21 20:39	MR	XM
Total/NA	Prep	8015NM Prep			1894	04/16/21 12:09	DM	XM
Total/NA	Analysis	8015B NM		1	1923	04/17/21 18:51	AJ	XM
Soluble	Leach	DI Leach			1942	04/17/21 18:36	CH	XM
Soluble	Analysis	300.0		1	2014	04/19/21 19:54	WP	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Chistera Battery
Job ID: 890-527-1
SDG: TE012921036

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-20-21	06-30-21
,	are included in this report, bu	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for v
the agency does not of	fer certification.			
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	
3 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery

Job ID: 890-527-1

SDG: TE012921036

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Chistera Battery

Job ID: 890-527-1

SDG: TE012921036

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-527-1	FS05	Solid	04/15/21 10:25	04/15/21 11:54	- 1.5

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Relinquished by: (Signature)

DOWN LINGWARZ

MISH

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Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

sed Date: 08/25/2020 Rev. 2020.

Received by: (Signature)

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 cile

Eurofins Xenco. A minimum charge of \$85.00 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 negotiated

otice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurolins Xenco, its amilates

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be C

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eurofins Xenco **Environment Testing**

Phone:

432-286-3849

ALDER LX

79705

City, State ZIP:

ddress:

88 WSP USA

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Permis a Astrock

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Company Name: Bill to: (if different)

SAMPLE RECEIPT

amples Received Intact:

ooler Custody Seals:

ample Custody Seals:

Yes (No N/A Yes No N/A

F505

Sample Identification

Matrix

Sampled

Sampled 5201

> Comp Grab/

> > Cont # of

Date

Time

Corrected Temperature: Temperature Reading:

6

11/15/21

iq. Depth Sampler's Name:

roject Location:

roject Number: Project Name:

16012921036 Chistera Battery

Routine

Rush

Code

Turn Around

der mir @ wsp.com

City, State ZIP:

Due Date:

Lea County

209436100 かんなん

Nach

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

Temp Blank: Yes No

Yes No

Wet ice:

N_O

Parameters

TPH (BPA 9015)

Thermometer ID:

Correction Factor:

Company Name:

roject Manager:

787

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

	www.xenco.com Page 1 of 1
Kyle Whrell	Work Order Comments
XTO Energy	Program: UST/PST PRP Brownfields RRC Superfund
522 West Mermond	₫.
Caristad NIM 88220	Reporting: Level III Level III PST/UST TRRP Level IV
cen	Deliverables: EDD ☐ ADaPT ☐ Other:
ANALYSIS REQUEST	ST Preservative Codes
	None: NO DI Water: H ₂ O
	Cool: Cool MeOH: Me
	HCL: HC HNO 3: HN
921	H ₂ SO ₄ : H ₂ NaOH: Na
180	H₃PO ;;HP
84 0 CP/	NaHSO 4: NABIS
A PA (E) 890-527 Chain of Custody	Sustody Na ₂ S ₂ O ₃ : NaSO ₃
EF Le	Zn Acetate+NaOH: Zn
EX	ואמטוד השנטוני הרומי שאו כ
BTI	Sample Comments
×	compas:te
1100	
As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg	Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
e Cd Cr C	e Ag TI U Hg: 1631 / 245.1 / 7470 / 7471
CHIPS OF THE STUDIES AND SECURIORALIS DUE SECURIOR STUDIES AND COURT	and conditions
s Xenco, its amiliates and subcontractors. It assigns standard territs and conductions	and the control

Work Order No:

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-527-1 SDG Number: TE012921036

List Source: Eurofins Carlsbad

Login Number: 527 List Number: 1

Creator: Ordonez, Gabby

Question Answer Comment The cooler's custody seal, if present, is intact. True Sample custody seals, if present, are intact. True The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-527-1 SDG Number: TE012921036

Login Number: 527 List Source: Eurofins Midland
List Number: 2 List Creation: 04/16/21 11:41 AM

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	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-742-1

Laboratory Sample Delivery Group: TE012921036

Client Project/Site: Christera CTB

Revision: 1

For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 5/31/2021 8:37:35 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/10/2021 7:19:56 AM

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.

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Client: WSP USA Inc.
Project/Site: Christera CTB
Laboratory Job ID: 890-742-1
SDG: TE012921036

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Definitions/Glossary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-742-1

SDG: TE012921036

Qualifiers

GC VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-742-1

SDG: TE012921036

Job ID: 890-742-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-742-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 5/31/2021. The report (revision 1) is being revised due to: Incorrect version originally sent, revison (1) us up to date

Receipt

The sample was received on 5/28/2021 1:30 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 5.0° C.

Receipt Exceptions

Incorrect version originally sent, revison (1) us up to date

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 880-3654 and analytical batch 880-3660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: SS04 (890-742-1) and (880-2587-A-1-A).

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.

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Job ID: 890-742-1 Client: WSP USA Inc. Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: SS04

Date Collected: 05/28/21 09:59 Date Received: 05/28/21 13:30

Sample Depth: - 0.5

Lab Sample ID: 890-742	2-1
Motrice Co	dia

Ma

trix: Solid	
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		05/29/21 11:13	05/29/21 14:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/29/21 11:13	05/29/21 14:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/29/21 11:13	05/29/21 14:46	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	55.6		50.0	mg/Kg		05/29/21 12:49	05/29/21 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 17:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 17:57	1
Total TPH	55.6		50.0	mg/Kg		05/29/21 12:49	05/29/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			05/29/21 12:49	05/29/21 17:57	1
o-Terphenyl	74		70 - 130			05/29/21 12:49	05/29/21 17:57	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solul	ole					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.7		5.02	mg/Kg			05/29/21 14:55	1

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-742-1

SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perc	ent Surroga	te Recove	ery (Acce	otance Lim	its)
		BFB1	DFBZ1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
890-742-1	SS04	102	97					
890-742-1 MS	SS04	112	106					
890-742-1 MSD	SS04	118	105					
LCS 880-3652/1-A	Lab Control Sample	106	106					
LCSD 880-3652/2-A	Lab Control Sample Dup	114	105					
MB 880-3652/5-A	Method Blank	90	91					
Surrogate Legend								
BFB = 4-Bromofluoro	benzene (Surr)							
DFBZ = 1,4-Difluorob	enzene (Surr)							

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		1001	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
890-742-1	SS04	87	74						
LCS 880-3659/2-A	Lab Control Sample	93	76						
LCSD 880-3659/3-A	Lab Control Sample Dup	92	74						
MB 880-3659/1-A	Method Blank	96	84						

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-742-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3652/5-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3652

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	05/29/21 11:13	05/29/21 14:25	1
1,4-Difluorobenzene (Surr)	91	70 - 130	05/29/21 11:13	05/29/21 14:25	1

Lab Sample ID: LCS 880-3652/1-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3652

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.1125 mg/Kg 112 70 - 130 Toluene 0.100 0.1053 mg/Kg 105 70 - 130 Ethylbenzene mg/Kg 106 0.100 0.1056 70 - 130 m-Xylene & p-Xylene 0.200 0.2268 mg/Kg 113 70 - 130 0.100 o-Xylene 0.1142 mg/Kg 114 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-3652/2-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3652

	Spike	LCSD LCSD)			%Rec.		RPD
Analyte	Added	Result Quali	fier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1095	mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1048	mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1064	mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2317	mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1170	mg/Kg		117	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1.4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-742-1 MS

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: SS04 Prep Type: Total/NA

Prep Batch: 3652

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Result Qualifier Added Unit D Limits %Rec Benzene <0.00200 U 0.0996 0.1091 mg/Kg 109 70 - 130

Eurofins Xenco, Carlsbad

Client Sample ID: SS04

Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-742-1 SDG: TE012921036 Project/Site: Christera CTB

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

Lab Sample ID: 890-742-1 MS

Matrix: Solid Analysis Batch: 3653

Prep Batch: 3652 MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Toluene <0.00200 U 0.0996 0.1033 mg/Kg 104 70 - 130 Ethylbenzene <0.00200 U 0.0996 0.1059 mg/Kg 106 70 - 130<0.00399 U 0.199 0.2298 115 70 - 130 m-Xylene & p-Xylene mg/Kg 0.0996 o-Xylene <0.00200 U 0.1151 mg/Kg 116 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-742-1 MSD

Analysis Batch: 3653

Client Sample ID: SS04 **Matrix: Solid** Prep Type: Total/NA Prep Batch: 3652

Sample Sample Spike MSD MSD %Rec. **RPD** RPD Result Qualifier Limit Added Result Qualifier Limits Analyte Unit D %Rec Benzene <0.00200 U 0.0990 0.1007 102 70 - 130 8 35 mg/Kg Toluene <0.00200 U 0.0990 0.09592 mg/Kg 97 70 - 130 7 35 Ethylbenzene <0.00200 U 0.0990 0.09997 mg/Kg 101 70 - 130 35 6 0.198 70 - 130 35 m-Xylene & p-Xylene <0.00399 U 0.2172 mg/Kg 110 6 o-Xylene <0.00200 U 0.0990 0.1091 mg/Kg 110 70 - 130 35

MSD MSD

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

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

Lab Sample ID: MB 880-3659/1-A

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3659

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Total TPH	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/29/21 12:49	05/29/21 14:42	1
o-Terphenyl	84		70 - 130	05/29/21 12:49	05/29/21 14:42	1

Lab Sample ID: LCS 880-3659/2-A

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 3659

LCS LCS Spike %Rec. **Analyte** Added Result Qualifier Unit %Rec Limits 1000 Gasoline Range Organics 813.2 mg/Kg 81 70 - 130

(GRO)-C6-C10

Client: WSP USA Inc.

Job ID: 890-742-1

Project/Site: Christera CTB

SDG: TE012921036

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

Lab Sample ID: LCS 880-3659/2-A

Matrix: Solid

Analysis Batch: 3662

Spike

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3659
%Rec.

 Analyte
 Added
 Result Plant
 Qualifier Plant
 Unit Plant
 Description
 Weec.

 Diesel Range Organics (Over Care)
 1000
 895.2
 mg/Kg
 p
 70 - 130

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: LCSD 880-3659/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 3662** Prep Batch: 3659 LCSD LCSD RPD Spike %Rec. Result Qualifier RPD Limit **Analyte** Added Unit %Rec Limits D Gasoline Range Organics 1000 799.2 80 70 - 130 2 20 mg/Kg

Gasoline Range Organics 1000 799.2 mg/kg 80 70 - 130 2 20 (GRO)-C6-C10

Diesel Range Organics (Over 1000 872.7 mg/Kg 87 70 - 130 3 20 C10-C28)

LCSD LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 92
 70 - 130

 o-Terphenyl
 74
 70 - 130

MB MB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3654/1-A

Matrix: Solid

Client Sample ID: Method Blank
Prep Type: Soluble

Analysis Batch: 3660

 Analyte
 Result Chloride
 Qualifier Science
 RL Science
 Unit mg/Kg
 D Prepared Discrete
 Analyzed Discrete
 Discrete<

Lab Sample ID: LCS 880-3654/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3660

 Analyte
 Added Chloride
 Result 250
 Qualifier 250
 Unit mg/Kg
 D 95
 90 - 110

Lab Sample ID: LCSD 880-3654/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3660

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 250 Chloride 238.4 mg/Kg 95 90 - 110 0

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-742-1

SDG: TE012921036

GC VOA

Prep Batch: 3652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-742-1	SS04	Total/NA	Solid	5035	
MB 880-3652/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-742-1 MS	SS04	Total/NA	Solid	5035	
890-742-1 MSD	SS04	Total/NA	Solid	5035	

Analysis Batch: 3653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-742-1	SS04	Total/NA	Solid	8021B	3652
MB 880-3652/5-A	Method Blank	Total/NA	Solid	8021B	3652
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	8021B	3652
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3652
890-742-1 MS	SS04	Total/NA	Solid	8021B	3652
890-742-1 MSD	SS04	Total/NA	Solid	8021B	3652

GC Semi VOA

Prep Batch: 3659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-742-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-742-1	SS04	Total/NA	Solid	8015B NM	3659
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015B NM	3659
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3659
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3659

HPLC/IC

Leach Batch: 3654

Lab Sample ID	Client Sample ID	Prep Type	Matrix		p Batch
890-742-1 MB 880-3654/1-A	SS04 Method Blank	Soluble Soluble	Solid Solid	DI Leach DI Leach	
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method i	Prep Batch
890-742-1	SS04	Soluble	Solid	300.0	3654
MB 880-3654/1-A	Method Blank	Soluble	Solid	300.0	3654
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	300.0	3654
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3654

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Date Received: 05/28/21 13:30

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-742-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: SS04 Lab Sample ID: 890-742-1 Date Collected: 05/28/21 09:59

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 14:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 17:57	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 14:55	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-742-1 Project/Site: Christera CTB SDG: TE012921036

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		ogram ELAP	Identification Number T104704400-20-21	Expiration Date 06-30-21	
The following analyte	s are included in this repo	rt_hut the laboratory is r	not certified by the governing authority.	This list may include analytes for	
,	•	rt, but the laboratory is r	to certified by the governing authority.	This list may include analytes for	
the agency does not of Analysis Method	•	Matrix	Analyte	This list may include analytes for	
the agency does not	offer certification.	•	, , ,	This list may include analytes for	

Method Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-742-1

SDG: TE012921036

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc. Project/Site: Christera CTB Job ID: 890-742-1

SDG: TE012921036

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-742-1	SS04	Solid	05/28/21 09:59	05/28/21 13:30	- 0.5

Project Manager:

Dan Moir

Chain of Custody

Work Order No:

www.xenco.com

Work Order Comments

Progra	VTO Espera les	Company Name: VTO Engrave Inc
	Kyle Littrell	Bill to: (if different) Kyle Littrell
3-620-2000)	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	Hobbs, NM (575-392-7550) Phoenix, AZ (48
	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Midland,TX (432-704-5440) E
4	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Houston, TX (281) 240-4200 D
	Citatil of Odorody	(

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	re) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time Rel	3)	Received by: (Signature)		Relinquished by: (Signature)	Relinq
		ces beyond the control ously negotiated.	of Service. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	of Service. Signature or this document and relinquistment of samples constitutes a value purchase order from client company to service, its annexes and service 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 loo 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 with the content of the	onsibility for any loss or each sample submi	nd shall not assume any response to the constitutes a value pure not shall not assume any response to the constitutes a value pure to the constitutes and the constitutes a value pure to the constitutes and the constitutes a value pure to the constitutes and the constitutes a value pure to the constitutes and the constitutes a value pure to the constitutes and the constitutes and the constitutes a value pure to the constitutes and the constitutes and the constitutes a value pure to the constitutes and the constitutes a value pure to the constitutes and the constitutes and the constitutes a value pure to the constitutes and the constitutes a value pure to the constitutes and the constitutes and the constitutes a value pure to the constitutes and the constitutes and the constitutes are the constitutes and the constitutes and the constitutes are the constitutes and the constitutes and the constitutes are the constitutes and the constitutes are the constitutes and the constitutes are the constitutes and the constitutes and the constitutes are the constitutes and the constitutes and the constitutes are the constitutes are the constitutes and the constitutes are the constitutes and the constitutes are the constitutes are the constitutes and the constitutes are the constitutes are the cons	the cost of samples a will be applied to each	enco will be liable only for minimum charge of \$75.00	of service. X of Xenco. A
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	Na Sr Ti Sn ∪ V Zn	Mo Ni K Se Ag SiO2	Ca Cr Co Cu Fe Pb Mg Mn	7. B	M Texas 11 A	8RCRA 13PPM	200.8 / 6020:	Total 200.7 / 6010 200	Total
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1	Discrete			× ×	0.5'	5/28/2021 9:59 0	s 5/2	SS04	
1	Sample Comments			BTEX (Depth	Date Time Sampled Sampled	Matrix S.	Sample Identification	Sa
1	lab, if received by 4:30pm	 		EPA	er of	Total Containers:	NO N/A	Sample Custody Seals: Yes	Sample C
۳ ا	TAT starts the day recevied by the	tody	890-742 Chain of Custody	0=802	2.2	Correction Factor: -	P	Seals: Ye	Cooler Cu
						I nermometer L	\$ 10 \$ 10	70	Peceived Intact:
						ā	7 7 0	-	
1					No.			SAMPI E RECEIPT	SAMP
		_			ite:	Pr Due Date	William Mather	Name:	Sampler's Name
	Cost Center: 2094361001				NA PAR	Rush:	Lea	ber:	P.O. Number:
	Incident #: nAPP2107747725					Routine	TE012921036	ımber:	Project Number:
1	Work Order Notes		ANALYSIS REQUEST		Turn Around		Chistera CTB	ime:	Project Name:
11	「	bles: EDD ADaPT	Deliverables:	Email: will.mather@wsp.com, dan.moir@wsp.com	ll.mather@wsp.com,	Email: w	3849	(432) 236-3849	Phone:
)ST	Reporting:Level II	Reporting		City, State ZIP:	0	× 79705	ZIP: Midland, Tx 79705	City, State ZIP
		State of Project:	State		Address:		n A Street		Address:
السا	lields ☐RC 1 perfund ☐	Program: UST/PST ☐RP ☐rownfields	Program	XTO Energy, Inc.	Company Name:		WSP USA Inc., Permian office	l	Company Name:

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-742-1

SDG Number: TE012921036

Login Number: 742 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-742-1 SDG Number: TE012921036

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 05/29/21 11:01 AM

List Number: 2

Creator: Kramer, Jessica

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-744-1

Laboratory Sample Delivery Group: TE012921036

Client Project/Site: Christera CTB

For:

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

Attn: Dan Moir

MEAMER

Authorized for release by: 5/31/2021 8:25:10 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

IOIGI7 ICCC

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/10/2021 7:19:56 AM

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.

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Client: WSP USA Inc.

Project/Site: Christera CTB

Laboratory Job ID: 890-744-1

SDG: TE012921036

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-744-1 Project/Site: Christera CTB SDG: TE012921036

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

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 Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit **PRES**

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-744-1

Project/Site: Christera CTB

SDG: TE012921036

Job ID: 890-744-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-744-1

Receipt

The samples were received on 5/28/2021 1:26 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 5.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3654 and analytical batch 880-3660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: PH02 (890-744-1), PH02 A (890-744-2) and (880-2587-A-1-A).

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

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Matrix: Solid

Lab Sample ID: 890-744-1

Client: WSP USA Inc. Job ID: 890-744-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH02

Date Collected: 05/28/21 10:05 Date Received: 05/28/21 13:26

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/29/21 11:13	05/29/21 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/29/21 11:13	05/29/21 15:47	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/29/21 11:13	05/29/21 15:47	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:00	1
Total TPH	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			05/29/21 12:49	05/29/21 19:00	1
o-Terphenyl	76		70 - 130			05/29/21 12:49	05/29/21 19:00	1

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.03		4.99	mg/Kg			05/29/21 15:25	1

Client Sample ID: PH02 A Date Collected: 05/28/21 10:15

Date Received: 05/28/21 13:26 Sample Depth: - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:08	
Toluene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 16:08	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:08	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 16:08	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/29/21 11:13	05/29/21 16:08	
1,4-Difluorobenzene (Surr)	95		70 - 130			05/29/21 11:13	05/29/21 16:08	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-744-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-744-2

Client Sample Results

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-744-1

SDG: TE012921036

Client Sample ID: PH02 A

Date Collected: 05/28/21 10:15 Date Received: 05/28/21 13:26

Sample Depth: - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:21	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:21	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:21	1
Total TPH	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			05/29/21 12:49	05/29/21 19:21	1
o-Terphenyl	78		70 - 130			05/29/21 12:49	05/29/21 19:21	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.1		4.96	mg/Kg			05/29/21 15:30	

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-744-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-744-1	PH02	106	94	
890-744-2	PH02 A	97	95	
LCS 880-3652/1-A	Lab Control Sample	106	106	
LCSD 880-3652/2-A	Lab Control Sample Dup	114	105	
MB 880-3652/5-A	Method Blank	90	91	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ne (Surr)			
DFBZ = 1,4-Difluorobenzen	e (Surr)			

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

Prep Type: Total/NA Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-744-1	PH02	87	76	
890-744-2	PH02 A	89	78	
LCS 880-3659/2-A	Lab Control Sample	93	76	
LCSD 880-3659/3-A	Lab Control Sample Dup	92	74	
MB 880-3659/1-A	Method Blank	96	84	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-744-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3652/5-A

Analysis Batch: 3653

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3652

	MB I	MB						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Toluene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	05/29/21 11:13	05/29/21 14:25	1
1,4-Difluorobenzene (Surr)	91	70 - 130	05/29/21 11:13	05/29/21 14:25	1

Lab Sample ID: LCS 880-3652/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 3653

Prep Type: Total/NA

Prep Batch: 3652

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1125 mg/Kg 112 70 - 130 Toluene 0.100 0.1053 105 mg/Kg 70 - 130 Ethylbenzene 0.100 0.1056 mg/Kg 106 70 - 130 m-Xylene & p-Xylene 0.200 0.2268 113 70 - 130 mg/Kg 70 - 130 o-Xylene 0.100 0.1142 mg/Kg 114

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-3652/2-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3652

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1095		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2317		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1170		mg/Kg		117	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

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Client: WSP USA Inc. Job ID: 890-744-1 SDG: TE012921036 Project/Site: Christera CTB

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

Lab Sample ID: MB 880-3659/1-A

Matrix: Solid

Analysis Batch: 3662

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 3659

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Total TPH	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/29/21 12:49	05/29/21 14:42	1
o-Terphenyl	84		70 - 130	05/29/21 12:49	05/29/21 14:42	1

Lab Sample ID: LCS 880-3659/2-A

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3659

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 813.2 81 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 895.2 mg/Kg 90 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: LCSD 880-3659/3-A

Matrix: Solid

Analysis Batch: 3662

Client	Sample	ID: Lab	Control	Sample	Dun
Ollelit	Januare	ID. Lab	COLLIG	Jailible	Dub

Prep Type: Total/NA

Prep Batch: 3659

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	 1000	799.2		mg/Kg		80	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	872.7		mg/Kg		87	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3654/1-A

Matrix: Solid

Analysis Batch: 3660

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed <5.00 U Chloride 5.00 mg/Kg 05/29/21 14:09

Client: WSP USA Inc.

Job ID: 890-744-1

Project/Site: Christera CTB

SDG: TE012921036

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3654/2-A

Matrix: Solid

Analysis Batch: 3660

Client Sample ID: Lab Control Sample
Prep Type: Soluble

 Analyte
 Added Chloride
 Result 250
 Qualifier 250
 Unit Mg/Kg
 D 95 90 - 110
 %Rec. Limits mg/Kg

Lab Sample ID: LCSD 880-3654/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 3660

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 238.4 mg/Kg 95 90 - 110 0 20

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-744-1

Project/Site: Christera CTB

SDG: TE012921036

GC VOA

Prep Batch: 3652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-744-1	PH02	Total/NA	Solid	5035	
890-744-2	PH02 A	Total/NA	Solid	5035	
MB 880-3652/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-744-1	PH02	Total/NA	Solid	8021B	3652
890-744-2	PH02 A	Total/NA	Solid	8021B	3652
MB 880-3652/5-A	Method Blank	Total/NA	Solid	8021B	3652
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	8021B	3652
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3652

GC Semi VOA

Prep Batch: 3659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-744-1	PH02	Total/NA	Solid	8015NM Prep	
890-744-2	PH02 A	Total/NA	Solid	8015NM Prep	
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-744-1	PH02	Total/NA	Solid	8015B NM	3659
890-744-2	PH02 A	Total/NA	Solid	8015B NM	3659
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015B NM	3659
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3659
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3659

HPLC/IC

Leach Batch: 3654

Lab Sample ID 890-744-1	Client Sample ID PH02	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-744-2	PH02 A	Soluble	Solid	DI Leach	
MB 880-3654/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-744-1	PH02	Soluble	Solid	300.0	3654
890-744-2	PH02 A	Soluble	Solid	300.0	3654
MB 880-3654/1-A	Method Blank	Soluble	Solid	300.0	3654
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	300.0	3654
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3654

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-744-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH02

Date Received: 05/28/21 13:26

Lab Sample ID: 890-744-1 Date Collected: 05/28/21 10:05

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 15:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 19:00	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 15:25	SC	XEN MID

Client Sample ID: PH02 A Lab Sample ID: 890-744-2

Date Collected: 05/28/21 10:15 **Matrix: Solid** Date Received: 05/28/21 13:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 16:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 19:21	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 15:30	SC	XEN MID

Laboratory References:

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

8015B NM

8021B

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-744-1 Project/Site: Christera CTB SDG: TE012921036

Total TPH

Total BTEX

Laboratory: Eurofins Xenco, Midland

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

8015NM Prep

5035

Authority	Pi	ogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-20-21	06-30-21	
The following analytes	are included in this report, b	ut the laboratory is not certifie	d by the governing authority. This list ma	ay include analytes for wh	
the agency does not of	fer certification.				
Analysis Method	Prep Method	Matrix	Analyte		

Solid

Solid

Method Summary

Client: WSP USA Inc.

Job ID: 890-744-1

Project/Site: Christera CTB

SDG: TE012921036

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: Christera CTB Job ID: 890-744-1 SDG: TE012921036

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-744-1 PH02 Solid 05/28/21 10:05 05/28/21 13:26 890-744-2 PH02 A 05/28/21 10:15 Solid 05/28/21 13:26 - 2.5

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	Dan Moir	Project Manager:
Hobbs, NM	SOR ATORIES	Ea

Revised Date 051418 Rev. 2018 1		6	6				
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		2	25.2113242	ת	80 (B)	18)	24 14
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	nature)	Received by: (Signature)	(Signature)	quished by:
	enforced unless previously negotiated.	alyzed. These terms will be enforced unless pro	mitted to Xenco, but not ans	of \$5 for each sample sub	each project and a charge	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.	Xenco. A minimum char
	It assigns standard terms and conditions The due to circumstances beyond the control	ffiliates and subcontractors. It assigns standar by the client if such losses are due to circumst	ent company to Xenco, its a	id purchase order from cli	samples constitutes a va	stice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors service. Young 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 in the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses in the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses in the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses in the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses in the cost of samples and shall not assume any responsibility for any losses in the client if such losses in the client is a sample and shall not assume any responsibility for any losses in the client if such losses in the client is a sample and shall not assume any responsibility for any losses in the client if such losses in the client is a sample and shall not assume any losses in the client is a sample and shall not assume any losses in the client is a sample and shall not assume any losses in the client is a sample and shall not assume any losses in the client is a sample and shall not assume any losses in the client is a sample and shall not assume any losses in the client is a sample and shall not a sample and shall not assume any losses in the client is a sample and shall not assume any losses in the client is a sample and shall not a sample and shall not assume any losses in the client is a sample and shall not a sample and shall	lice: Signature of this do
1631 / 245 1 / 7470 / 7471 : Hg		Cr Co Cu Pb Mn Mo Ni Se	Sb As Ba Be	010: 8RCR		pa	Circle Method(s,
Sn U V Zn	Mn Mo Ni K Se Ag SiO2 Na Sr Tl	Cd Ca Cr Co Cu Fe Pb Mg	Al Sb As Ba Be B	13PPM Texas 11	8RCRA	10 200.8 / 6020:	Total 200.7 / 6010
			-				
			1	22			
			1	1.12	V		
							1
Discrete			× ×	2.5	5/28/2021 10:15	S	PH02A
Discrete			× ×	1'	5/28/2021 10:05	v	PH02
Sample Comments	Sar		TPH (E BTEX Chlori	Depth Numb	Date Time Sampled Sampled	fication Matrix	Sample Identification
	ia b		PA 8		Total Containers:	s: Yes (No) N/A	ample Custody Seals:
TAT starts the day recevied by the	TAT star		0=8		Correction Factor:	Yes No	ooler Custody Seals:
	ustody	890-744 Chain of Custody	021)		172MDT	Yes No	eceived Intact:
					Thermometer ID	5.2/50	emperature (°C):
				(Yes No	(yes) No Wet Ice:	PT Temp Blank: (Yes) No	SAMPLE RECEIPT
				Due Date:		William Mather	ampler's Name:
Cost Center: 2094361001	Cost Cen			Rush: 24h	Z	Lea	O. Number:
Incident #: nAPP2107747725	Incident #		_	Routine		TE012921036	roject Number:
Work Order Notes	Wo	ANALYSIS REQUEST		Turn Around	ТВ	Chistera CTB	roject Name:
Other:	Deliverables: EDD ADaPT	Delive	m, dan.moir@wsp.com	Email: will.mather@wsp.com, dan.moir@wsp.com	En	(432) 236-3849	hone:
JRP Uvel IV	□evel III □ST/UST	Repor		City, State ZIP:		Midland, Tx 79705	ity, State ZIP: N
		Sta		Address:		3300 North A Street	ddress: 3
_RC *Dperfund ☐	□RP □rownfields	Progra	XTO Energy, Inc.	Company Name:	office	WSP USA Inc., Permian office	
ts	Work Order Comments		Kyle Littrell	Bill to: (if different)		Dan Moir	roject Manager: [
of_)) www.xenco.com Page	A (770-449-8800) Tampa,FL (813-620-2000)	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa	-392-7550) Phoenix,AZ	Hobbs, NM (575		
-		Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296) EL Paso,TX (915)585-34	dland,TX (432-704-5440	S		
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Dallas, TX (214) 902-0300	ston, TX (281) 240-4200		17:10	

Work Order No:

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-744-1

SDG Number: TE012921036

Login Number: 744 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-744-1 SDG Number: TE012921036

List Source: Eurofins Xenco, Midland

List Creation: 05/29/21 11:01 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 744

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?	N/A	
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	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-745-1

Laboratory Sample Delivery Group: TE012921036

Client Project/Site: Christera CTB

For:

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

Attn: Dan Moir

SKRAMER

Authorized for release by: 5/31/2021 8:26:14 PM

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

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Client: WSP USA Inc.

Project/Site: Christera CTB

Laboratory Job ID: 890-745-1

SDG: TE012921036

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

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 Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit **PRES**

Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-745-1

Project/Site: Christera CTB

SDG: TE012921036

Job ID: 890-745-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-745-1

Receipt

The samples were received on 5/28/2021 1:26 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 5.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3654 and 880-3654 and analytical batch 880-3660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: PH03 (890-745-1), PH03 A (890-745-2) and (880-2587-A-1-A).

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

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Matrix: Solid

Lab Sample ID: 890-745-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH03

Date Collected: 05/28/21 10:27 Date Received: 05/28/21 13:26

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/29/21 11:13	05/29/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/29/21 11:13	05/29/21 16:28	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/29/21 11:13	05/29/21 16:28	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:42	1
Total TPH	<49.9	U	49.9	mg/Kg		05/29/21 12:49	05/29/21 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			05/29/21 12:49	05/29/21 19:42	1
o-Terphenyl	76		70 - 130			05/29/21 12:49	05/29/21 19:42	1

_ Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			05/29/21 15:35	1

Client Sample ID: PH03 A Lab Sample ID: 890-745-2 Date Collected: 05/28/21 10:37 **Matrix: Solid** Date Received: 05/28/21 13:26

Sample Depth: - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/29/21 11:13	05/29/21 16:48	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/29/21 11:13	05/29/21 16:48	1

Matrix: Solid

Lab Sample ID: 890-745-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH03 A

Date Collected: 05/28/21 10:37 Date Received: 05/28/21 13:26

Sample Depth: - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 20:25	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 20:25	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 20:25	1
Total TPH	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 20:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			05/29/21 12:49	05/29/21 20:25	1
o-Terphenyl	72		70 - 130			05/29/21 12:49	05/29/21 20:25	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.61		4.95	mg/Kg			05/29/21 15:41	

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-745-1	PH03	105	94	
890-745-2	PH03 A	104	92	
LCS 880-3652/1-A	Lab Control Sample	106	106	
LCSD 880-3652/2-A	Lab Control Sample Dup	114	105	
MB 880-3652/5-A	Method Blank	90	91	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-745-1	PH03	85	76	
890-745-2	PH03 A	86	72	
LCS 880-3659/2-A	Lab Control Sample	93	76	
LCSD 880-3659/3-A	Lab Control Sample Dup	92	74	
MB 880-3659/1-A	Method Blank	96	84	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3652/5-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3652

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/29/21 11:13	05/29/21 14:25	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/29/21 11:13	05/29/21 14:25	1

Lab Sample ID: LCS 880-3652/1-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3652

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.1125 mg/Kg 112 70 - 130 Toluene 0.100 0.1053 105 mg/Kg 70 - 130 Ethylbenzene 0.100 0.1056 mg/Kg 106 70 - 130 m-Xylene & p-Xylene 0.200 0.2268 113 70 - 130 mg/Kg 70 - 130 o-Xylene 0.100 0.1142 mg/Kg 114

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-3652/2-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3652

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1095		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2317		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1170		mg/Kg		117	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

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

Lab Sample ID: MB 880-3659/1-A

Matrix: Solid Analysis Batch: 3662 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3659

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Total TPH	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/29/21 12:49	05/29/21 14:42	1
o-Terphenyl	84		70 - 130	05/29/21 12:49	05/29/21 14:42	1

Lab Sample ID: LCS 880-3659/2-A

LCS LCS

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 3659

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 813.2 81 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 895.2 mg/Kg 90 70 - 130 C10-C28)

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 93 70 - 130 o-Terphenyl 76 70 - 130

Lab Sample ID: LCSD 880-3659/3-A

Analysis Batch: 3662

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 3659

RPD LCSD LCSD Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 799.2 80 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 872.7 mg/Kg 87 70 - 13020 3 C10-C28)

LCSD LCSD %Recovery Qualifier Limits Surrogate 92 70 - 130 1-Chlorooctane 70 - 130 74 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3654/1-A

Matrix: Solid

Analysis Batch: 3660

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 05/29/21 14:09

Client: WSP USA Inc.

Job ID: 890-745-1

Project/Site: Christera CTB

SDG: TE012921036

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3654/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3660

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	238.6		mg/Kg		95	90 - 110	

Lab Sample ID: LCSD 880-3654/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3660

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	238.4	-	mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

GC VOA

Prep Batch: 3652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-745-1	PH03	Total/NA	Solid	5035	
890-745-2	PH03 A	Total/NA	Solid	5035	
MB 880-3652/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-745-1	PH03	Total/NA	Solid	8021B	3652
890-745-2	PH03 A	Total/NA	Solid	8021B	3652
MB 880-3652/5-A	Method Blank	Total/NA	Solid	8021B	3652
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	8021B	3652
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3652

GC Semi VOA

Prep Batch: 3659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-745-1	PH03	Total/NA	Solid	8015NM Prep	
890-745-2	PH03 A	Total/NA	Solid	8015NM Prep	
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3662

Lab Sample ID Client Sample ID		Prep Type Matrix		Method	Prep Batch	
890-745-1	PH03	Total/NA	Solid	8015B NM	3659	
890-745-2	PH03 A	Total/NA	Solid	8015B NM	3659	
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015B NM	3659	
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3659	
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3659	

HPLC/IC

Leach Batch: 3654

Lab Sample ID	Client Sample ID	Bron Tuno	Matrix	Method	Prep Batch
890-745-1	PH03	Prep Type Soluble	Solid	DI Leach	- Ртер ваксп
890-745-2	PH03 A	Soluble	Solid	DI Leach	
MB 880-3654/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-745-1	PH03	Soluble	Solid	300.0	3654
890-745-2	PH03 A	Soluble	Solid	300.0	3654
MB 880-3654/1-A	Method Blank	Soluble	Solid	300.0	3654
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	300.0	3654
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3654

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH03

Date Received: 05/28/21 13:26

Lab Sample ID: 890-745-1 Date Collected: 05/28/21 10:27

Matrix: Solid

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 Total/NA Prep 3652 05/29/21 11:13 KL XEN MID Total/NA Analysis 8021B 1 3653 05/29/21 16:28 KL XEN MID Total/NA Prep 8015NM Prep 3659 05/29/21 12:49 AM XEN MID Total/NA Analysis 8015B NM 1 3662 05/29/21 19:42 AM XEN MID XEN MID Soluble Leach DI Leach 3654 05/29/21 11:20 SC

Soluble Analysis 300.0 1 3660 05/29/21 15:35 SC XEN MID Client Sample ID: PH03 A Lab Sample ID: 890-745-2

Date Collected: 05/28/21 10:37 Date Received: 05/28/21 13:26

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 16:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 20:25	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 15:41	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-745-1 Project/Site: Christera CTB SDG: TE012921036

Laboratory: Eurofins Xenco, Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-745-1

SDG: TE012921036

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: Christera CTB Job ID: 890-745-1 SDG: TE012921036

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-745-1	PH03	Solid	05/28/21 10:27	05/28/21 13:26	- 1
890-745-2	PH03 A	Solid	05/28/21 10:37	05/28/21 13:26	- 2.5

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
1 (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813

5	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. 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						PH03	Sample Identification Matrix	Yes (No)	Cooler Custody Seals: Yes No. N		מויים	CEBT	Sampler's Name: William			Name:	Phone: (432) 236-3849	City, State ZIP: Midfand, Tx 79705	Address: 3300 North A Street	Company Name: WSP USA Inc., Permian office	Project Manager: Dan Moir
	Received by: (Signature)	nt of samples constitutes a valid purchass amples and shall not assume any respons ed to each project and a charge of \$5 for ea	8RCRA 13PPM Te: analyzed TCLP / SPLP 6010:						5/28/2021 10:27 1'	Date Time Sampled Sampled	Total Containers:	N/A Correction Factor: \O	nermometer ID	Con to the tree less.	NS NS	₽₽	Rush 14	R)	Chistera CTB Turn Around	Email: will.m	City,	Address:		Bill to
		e order from client company to Xenc ibility for any losses or expenses in ach sample submitted to Xenco, but	Texas 11 Al Sb As Ba 10: 8RCRA Sb As Ba E		12		\vdash		1 ×	Number TPH (EI	er of o	Cont	_						ound	Email: will.mather@wsp.com, dan.moir@wsp.com	City, State ZIP:	ess:	Company Name: XTO Energy, Inc.	Bill to: (if different) Kyle Littrell
O 4	Relinquished by: (Signature)	o, its affiliates and subcontractors. It assigns curred by the client if such losses are due to conot analyzed. These terms will be enforced un	Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se					×	×	Chlorid	e (EP	890-745 Chain of Custody							ANALYSIS REQUEST					
	e) Received by: (Signature)	standard terms and conditions ircumstances beyond the control less previously negotiated.	\g SiO2									Custody				-			ST	Deliverables: EDD ADaPT	Reporting:Level II Level III Lp1	State of Project:	Program: UST/PST ☐RP ☐rowi	Work Orger
7	ture) Date/Time		Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 . H g					Discrete	Discrete	Sample Comments	lab, if received by 4:30pm	TAT starts the day reserved by t					Cast Center: 2004361001	Incident #: nAPP2107747725	Work Order Notes	PT Other:	TRP Political IV		☐rownfields ☐RC ☐perfund [Work Order Comments

Work Order No:

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-745-1

SDG Number: TE012921036

List Source: Eurofins Xenco, Carlsbad

Login Number: 745 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-745-1 SDG Number: TE012921036

List Source: Eurofins Xenco, Midland

List Creation: 05/29/21 11:01 AM

Creator: Kramer, Jessica

Login Number: 745

List Number: 2

<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?	N/A	
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	

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-746-1

Laboratory Sample Delivery Group: TE012921036

Client Project/Site: Christera CTB

For:

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

Attn: Dan Moir

SKRAMER

Authorized for release by: 5/31/2021 8:33:05 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 8/10/2021 7:19:56 AM

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.

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Client: WSP USA Inc.

Project/Site: Christera CTB

Laboratory Job ID: 890-746-1

SDG: TE012921036

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Definitions/Glossary

Client: WSP USA Inc.

Job ID: 890-746-1

Project/Site: Christera CTB

SDG: TE012921036

Qualifiers

GC VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

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Case Narrative

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-746-1

SDG: TE012921036

Job ID: 890-746-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-746-1

Receipt

The samples were received on 5/28/2021 1:26 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 5.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3654 and analytical batch 880-3660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated sample is: PH04 (890-746-1).

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

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Job ID: 890-746-1 SDG: TE012921036

Client: WSP USA Inc.
Project/Site: Christera CTB

Lab Sample ID: 890-746-1

Matrix: Solid

Date Collected: 05/28/21 10:48 Date Received: 05/28/21 13:26

Client Sample ID: PH04

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/29/21 11:13	05/29/21 17:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/29/21 11:13	05/29/21 17:09	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/29/21 12:49	05/29/21 20:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/29/21 12:49	05/29/21 20:46	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/29/21 12:49	05/29/21 20:46	1
Total TPH	<49.7	U	49.7	mg/Kg		05/29/21 12:49	05/29/21 20:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			05/29/21 12:49	05/29/21 20:46	1
o-Terphenyl	75		70 - 130			05/29/21 12:49	05/29/21 20:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.05	U	5.05	mg/Kg			05/29/21 15:46	1		

Client Sample ID: PH04 A

Date Collected: 05/28/21 10:53

Date Received: 05/28/21 13:26

Lab Sample ID: 890-746-2

Matrix: Solid

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/29/21 11:13	05/29/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			05/29/21 11:13	05/29/21 17:29	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/29/21 11:13	05/29/21 17:29	1

Eurofins Xenco, Carlsbad

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Client Sample Results

Job ID: 890-746-1 Client: WSP USA Inc. Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH04 A

Date Collected: 05/28/21 10:53 Date Received: 05/28/21 13:26

Sample Depth: - 3

Lab	Sample	ID:	890)-7	46-	2
		N	/latr	iy.	Soli	hi

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:07	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:07	1
Total TPH	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			05/29/21 12:49	05/29/21 21:07	1
o-Terphenyl	75		70 - 130			05/29/21 12:49	05/29/21 21:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.02	U	5.02	mg/Kg			05/29/21 15:51	1	

Surrogate Summary

Job ID: 890-746-1 Client: WSP USA Inc. Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_			Pero
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-746-1	PH04	99	94
890-746-2	PH04 A	88	98
LCS 880-3652/1-A	Lab Control Sample	106	106
LCSD 880-3652/2-A	Lab Control Sample Dup	114	105
MB 880-3652/5-A	Method Blank	90	91
Surrogate Legend			
BFB = 4-Bromofluorob	enzene (Surr)		

DFBZ = 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	,
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-746-1	PH04	86	75	
890-746-2	PH04 A	87	75	
LCS 880-3659/2-A	Lab Control Sample	93	76	
LCSD 880-3659/3-A	Lab Control Sample Dup	92	74	
MB 880-3659/1-A	Method Blank	96	84	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 890-746-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3652/5-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3652

	MB MB						
Analyte	Result Qualif	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	1
Toluene	<0.00200 U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	•
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	•
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	
o-Xylene	<0.00200 U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	•
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	•
Total BTEX	<0.00400 U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	

MB MB

Surrogate	%Recovery	Qualifier Lim	its	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 -	130	05/29/21 11:13	05/29/21 14:25	1
1,4-Difluorobenzene (Surr)	91	70 -	130	05/29/21 11:13	05/29/21 14:25	1

Lab Sample ID: LCS 880-3652/1-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3652

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1125		mg/Kg	_	112	70 - 130	
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2268		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-3652/2-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3652

		Spike	LCSD	LCSD				%Rec.		RPD
Α	nalyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
В	enzene	0.100	0.1095		mg/Kg		109	70 - 130	3	35
To	bluene	0.100	0.1048		mg/Kg		105	70 - 130	1	35
E	thylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	1	35
m	-Xylene & p-Xylene	0.200	0.2317		mg/Kg		116	70 - 130	2	35
0-	Xylene	0.100	0.1170		mg/Kg		117	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-746-1 Project/Site: Christera CTB SDG: TE012921036

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

Lab Sample ID: MB 880-3659/1-A

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3659

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Total TPH	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96	70 - 130	05/29/21 12:49	05/29/21 14:42	1
o-Terphenyl	84	70 - 130	05/29/21 12:49	05/29/21 14:42	1

Lab Sample ID: LCS 880-3659/2-A

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 3662 Prep Batch: 3659 Snike LCS LCS %Rec

	Opike	LOO	LUU				/ortec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	813.2		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	895.2		mg/Kg		90	70 - 130	
040,000)								

C10-C28)

	LC3 LC3	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	93	70 - 130
o-Ternhenyl	76	70 - 130

Lab Sample ID: LCSD 880-3659/3-A

Matrix: Solid

Analysis Ratch: 2662

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

Prep Batch: 3659

Alialysis Dalcii. 3002							Frep	Daten.	3009	
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	799.2		mg/Kg		80	70 - 130	2	20	
(GRO)-C6-C10								_		
Diesel Range Organics (Over	1000	872.7		mg/Kg		87	70 - 130	3	20	
C10-C28)										

	LCSD LCSD	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	74	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3654/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 3660

MB MB Unit Analyte Result Qualifier RL **Prepared** Analyzed Dil Fac Chloride <5.00 U 5.00 05/29/21 14:09 mg/Kg

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-746-1

Project/Site: Christera CTB

SDG: TE012921036

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3654/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble

Analysis Batch: 3660

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits

250

Lab Sample ID: LCSD 880-3654/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

238.6

mg/Kg

95

90 - 110

Prep Type: Soluble

Analysis Batch: 3660

Chloride

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 238.4 90 - 110 mg/Kg 95 0

Lab Sample ID: 890-746-2 MS Client Sample ID: PH04 A

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 3660

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Limits Unit D %Rec Chloride <5.02 U 251 247.8 mg/Kg

Lab Sample ID: 890-746-2 MSD Client Sample ID: PH04 A

Matrix: Solid

Analysis Batch: 3660

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Chloride <5.02 U 251 247.5 mg/Kg 98 90 - 110

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-746-1

Project/Site: Christera CTB

SDG: TE012921036

GC VOA

Prep Batch: 3652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-746-1	PH04	Total/NA	Solid	5035	
890-746-2	PH04 A	Total/NA	Solid	5035	
MB 880-3652/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-746-1	PH04	Total/NA	Solid	8021B	3652
890-746-2	PH04 A	Total/NA	Solid	8021B	3652
MB 880-3652/5-A	Method Blank	Total/NA	Solid	8021B	3652
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	8021B	3652
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3652

GC Semi VOA

Prep Batch: 3659

Lab Sample ID 890-746-1	Client Sample ID PH04	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-746-2	PH04 A	Total/NA	Solid	8015NM Prep	
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-746-1	PH04	Total/NA	Solid	8015B NM	3659
890-746-2	PH04 A	Total/NA	Solid	8015B NM	3659
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015B NM	3659
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3659
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3659

HPLC/IC

Leach Batch: 3654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-746-1	PH04	Soluble	Solid	DI Leach	
890-746-2	PH04 A	Soluble	Solid	DI Leach	
MB 880-3654/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-746-2 MS	PH04 A	Soluble	Solid	DI Leach	
890-746-2 MSD	PH04 A	Soluble	Solid	DI Leach	

Analysis Batch: 3660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-746-1	PH04	Soluble	Solid	300.0	3654
890-746-2	PH04 A	Soluble	Solid	300.0	3654
MB 880-3654/1-A	Method Blank	Soluble	Solid	300.0	3654
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	300.0	3654
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3654
890-746-2 MS	PH04 A	Soluble	Solid	300.0	3654

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-746-1

SDG: TE012921036

HPLC/IC (Continued)

Analysis Batch: 3660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-746-2 MSD	PH04 A	Soluble	Solid	300.0	3654

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-746-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH04

Lab Sample ID: 890-746-1

Matrix: Solid

Date Collected: 05/28/21 10:48 Date Received: 05/28/21 13:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 17:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 20:46	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 15:46	SC	XEN MID

Lab Sample ID: 890-746-2

Matrix: Solid

Date Collected: 05/28/21 10:53 Date Received: 05/28/21 13:26

Client Sample ID: PH04 A

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 17:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 21:07	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 15:51	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-746-1

SDG: TE012921036

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		rogram ELAP	T104704400-20-21	Expiration Date 06-30-21
The following analyte the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

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Method Summary

Client: WSP USA Inc.

Project/Site: Christera CTB

Job ID: 890-746-1

SDG: TE012921036

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc. Project/Site: Christera CTB Job ID: 890-746-1

SDG: TE012921036

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-746-1	PH04	Solid		05/28/21 13:26	
890-746-2	PH04 A	Solid	05/28/21 10:53	05/28/21 13:26	- 3

Revised Date 051418 Rev 2018 1							
							7
		4				(3
		2/0	PRE1 12-87-9	77	2		W.W.
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	ıre)	Received by: (Signature)	(Sjgnature)	Relinquished by: (Signature)
	reviously negotiated.	alyzed. These terms will be enforced unless previously negotiated.	bmitted to Xenco, but not ans	5 for each sample su	each project and a charge of \$	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	of Xenco. A minimum cha
	ctors. It assigns standard terms and conditions see are due to circumstances beyond the control	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	lient company to Xenco, its a osses or expenses incurred l	urchase order from c	samples constitutes a valid p	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontrac 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 los	Notice: Signature of this do
111				ומנו / טו בר שטוט. טוגטואי		Circle Method(s) and Meta(s) to be analyzed	Circle Memoria
	NI K Se Ag SIOZ	Mn Mo Ni Se	_	13PPM Texas 11	00	110 200.8 / 6020:	Total 200.7 / 6010
25	NI V So As SiO3 No St				- 11 1	Ш	
					-		
				100	9		
					10		
	+						
		-					/
Discrete			1 × ×	3'	5/28/2021 10:53	s	PH04A
Discrete			×	-1	5/28/2021 10:48	S	PH04
Sample Comments	Sal		TPH (E BTEX (Depth	Date Time Sampled Sampled	lification Matrix	Sample Identification
if received by 4:30pm	- - -		PA 8		Total Containers:	Is: Yes (Ng N/A	Sample Custody Seals:
TAT starts the day recevied by the		890-746 Chain of Custody	0=8	100,0	Correction Factor:	Yes N	Cooler Custody Seals:
			021	1	NITO	Yes No	Received Intact:
)	30	Thermometer ID	0.070	Temperature (°C):
				No O	(Yes) No Wet Ice: Yes	₩-	SAMPLE RECEIPT
	-	-				1	
				Date:	ther Due Date:	William Mather	Sampler's Name:
Cost Center: 2094361001	Cost Cen			1. 34V	Rush:	Lea	P.O. Number:
Incident #: nAPP2107747725	Incident #			ine []	036 Routine	TE012921036	Project Number:
Work Order Notes	W	ANALYSIS REQUEST		Turn Around		Chistera CTB	Project Name:
Otner	Deliverables: EDD ADaP1	Delivi	om, dan.moir@wsp.com	Email: will.mather@wsp.com,	Email:	(432) 236-3849	Phone:
LRP (Evel IV	Level III SI/USI	Repo		City, State ZIP:		Midland, Tx 79705	City, State ZIP:
		St		Address:		3300 North A Street	Address:
RC Derfund	Program: UST/PST □RP □ rownfields □RC	Progi	XTO Energy, Inc.	Company Name:	office	WSP USA Inc., Permian office	Company Name:
S	Work Order Comments		Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager:
or l	oo) www.xenco.com Page	A (770-449-8800) Tampa, FL (813-620-2000)	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tai	?-7550) Phoenix,AZ	Hobbs, NM (575-392		
_		Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296) EL Paso,TX (915)585-34	d,TX (432-704-5440	Midlan		X
	Work Order No:	15 Cay (210) 500 2324					

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-746-1 SDG Number: TE012921036

List Source: Eurofins Xenco, Carlsbad

Login Number: 746 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-746-1 SDG Number: TE012921036

Login Number: 746 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 05/29/21 11:01 AM

Creator: Kramer, Jessica

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?	N/A	
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	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-747-1

Laboratory Sample Delivery Group: TE012921036

Client Project/Site: Christera CTB

For:

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

Attn: Dan Moir

MEAMER

Authorized for release by: 5/31/2021 8:34:33 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Iotal Access

Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 8/10/2021 7:19:56 AM

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.

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Client: WSP USA Inc.

Project/Site: Christera CTB

Laboratory Job ID: 890-747-1

SDG: TE012921036

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-747-1 Project/Site: Christera CTB SDG: TE012921036

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

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

NFG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive

QC **Quality Control** RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-747-1

Project/Site: Christera CTB

SDG: TE012921036

Job ID: 890-747-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-747-1

Receipt

The samples were received on 5/28/2021 1:26 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 5.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

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Eurofins Xenco, Carlsbad

5/31/2021

Matrix: Solid

Lab Sample ID: 890-747-1

Client: WSP USA Inc.

Job ID: 890-747-1

Project/Site: Christera CTB

SDG: TE012921036

Client Sample ID: PH05

Date Collected: 05/28/21 11:04 Date Received: 05/28/21 13:26

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		05/29/21 11:13	05/29/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/29/21 11:13	05/29/21 17:50	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/29/21 11:13	05/29/21 17:50	1
		RO) (GC)	70 - 130			05/29/21 11:13	05/29/21 17:50	1
1,4-Difluorobenzene (Surr) : Method: 8015B NM - Diesel Ranç Analyte	je Organics (Dl	RO) (GC) Qualifier	70 ₋ 130 R L	Unit	D	05/29/21 11:13 Prepared	05/29/21 17:50 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	je Organics (Dl	Qualifier		Unit mg/Kg	<u>D</u>			·
Method: 8015B NM - Diesel Rang Analyte	ge Organics (DI Result	Qualifier U	RL		<u>D</u>	Prepared	Analyzed	·
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <49.7	Qualifier U	RL 49.7	mg/Kg	<u> </u>	Prepared 05/29/21 12:49 05/29/21 12:49	Analyzed 05/29/21 21:28 05/29/21 21:28	·
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result <49.7	Qualifier U	RL 49.7	mg/Kg	<u>D</u>	Prepared 05/29/21 12:49	Analyzed 05/29/21 21:28	·
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <49.7	Qualifier U U U	RL 49.7	mg/Kg	<u>D</u>	Prepared 05/29/21 12:49 05/29/21 12:49	Analyzed 05/29/21 21:28 05/29/21 21:28	·
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <49.7 <49.7 <49.7 <49.7	Qualifier U U U U	RL 49.7 49.7	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/29/21 12:49 05/29/21 12:49 05/29/21 12:49	Analyzed 05/29/21 21:28 05/29/21 21:28 05/29/21 21:28	·
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (DI Result <49.7 <49.7 <49.7 <49.7	Qualifier U U U U	RL 49.7 49.7 49.7 49.7	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 05/29/21 12:49 05/29/21 12:49 05/29/21 12:49 05/29/21 12:49	Analyzed 05/29/21 21:28 05/29/21 21:28 05/29/21 21:28 05/29/21 21:28	Dil Fac 1 1 1 1

Client Sample ID: PH05 A Lab Sample ID: 890-747-2

RL

4.97

Unit

mg/Kg

D

Prepared

Analyzed

05/29/21 16:06

Result Qualifier

<4.97 U

Date Collected: 05/28/21 11:06 Date Received: 05/28/21 13:26

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: - 3

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/29/21 11:13	05/29/21 19:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			05/29/21 11:13	05/29/21 19:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/29/21 11:13	05/29/21 19:12	1

Eurofins Xenco, Carlsbad

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Dil Fac

Matrix: Solid

fins Xenco, Carisbac

Matrix: Solid

Lab Sample ID: 890-747-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-747-1 Project/Site: Christera CTB SDG: TE012921036

Client Sample ID: PH05 A

Date Collected: 05/28/21 11:06 Date Received: 05/28/21 13:26

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:49	1
Total TPH	<49.8	U	49.8	mg/Kg		05/29/21 12:49	05/29/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			05/29/21 12:49	05/29/21 21:49	1
o-Terphenyl	74		70 - 130			05/29/21 12:49	05/29/21 21:49	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	11	4.98	mg/Kg			05/29/21 16:12	

Eurofins Xenco, Carlsbad

Page 6 of 18 5/31/2021 Released to Imaging: 8/10/2021 7:19:56 AM

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-747-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-747-1	PH05	100	92	
890-747-2	PH05 A	98	99	
LCS 880-3652/1-A	Lab Control Sample	106	106	
LCSD 880-3652/2-A	Lab Control Sample Dup	114	105	
MB 880-3652/5-A	Method Blank	90	91	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ne (Surr)			
DFBZ = 1,4-Difluorobenzen	e (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-747-1	PH05	84	68 S1-	
890-747-2	PH05 A	86	74	
LCS 880-3659/2-A	Lab Control Sample	93	76	
LCSD 880-3659/3-A	Lab Control Sample Dup	92	74	
MB 880-3659/1-A	Method Blank	96	84	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 890-747-1 Project/Site: Christera CTB SDG: TE012921036

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3652/5-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3652

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Toluene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/29/21 11:13	05/29/21 14:25	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	05/29/21 11:13	05/29/21 14:25	1
1,4-Difluorobenzene (Surr)	91	70 - 130	05/29/21 11:13	05/29/21 14:25	1

Lab Sample ID: LCS 880-3652/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 3653

Prep Type: Total/NA Prep Batch: 3652

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1125		mg/Kg		112	70 - 130	
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2268		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-3652/2-A

Matrix: Solid

Analysis Batch: 3653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3652

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1095		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2317		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1170		mg/Kg		117	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-747-1 SDG: TE012921036 Project/Site: Christera CTB

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

Lab Sample ID: MB 880-3659/1-A

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3659

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1
Total TPH	<50.0	U	50.0	mg/Kg		05/29/21 12:49	05/29/21 14:42	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/29/21 12	49 05/29/21 14:42	1
o-Terphenyl	84		70 - 130	05/29/21 12	49 05/29/21 14:42	1

Lab Sample ID: LCS 880-3659/2-A

Matrix: Solid

Analysis Batch: 3662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3659

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	813.2		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	895.2		mg/Kg		90	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: LCSD 880-3659/3-A

Matrix: Solid

Analysis Batch: 3662

CI	ient	Samp	le ID:	Lab	Control	Samp	le	Dup)
----	------	------	--------	-----	---------	------	----	-----	---

Prep Type: Total/NA

Prep Batch: 3659

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	 1000	799.2		mg/Kg		80	70 - 130	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	872.7		mg/Kg		87	70 - 130	3	20	
C10-C28)										

	LCSD LCS	SD
Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	74	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3654/1-A

Matrix: Solid

Analysis Batch: 3660

Client Sam	ple ID:	Method	Blank	
------------	---------	--------	-------	--

Prep Type: Soluble

MB MB Prepared Analyte Result Qualifier RL Unit D Dil Fac Analyzed Chloride <5.00 U 5.00 mg/Kg 05/29/21 14:09

Chloride

90 - 110

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-747-1

Project/Site: Christera CTB

SDG: TE012921036

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3654/2-A Matrix: Solid Analysis Batch: 3660						Client	Sample	ID: Lab Control Sample Prep Type: Soluble
	,	Spike	LCS	LCS				%Rec.
	Δnalvto	hahhA	Result	Qualifier	Unit	n	%Rec	Limits

238.6

mg/Kg

Lab Sample ID: LCSD 880-3654/3-A Matrix: Solid Analysis Batch: 3660				Clie	nt Sam	nple ID:	Lab Contro Prep	ol Sampl Type: S	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	238.4		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-747-1 Project/Site: Christera CTB SDG: TE012921036

GC VOA

Prep Batch: 3652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-747-1	PH05	Total/NA	Solid	5035	
890-747-2	PH05 A	Total/NA	Solid	5035	
MB 880-3652/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-747-1	PH05	Total/NA	Solid	8021B	3652
890-747-2	PH05 A	Total/NA	Solid	8021B	3652
MB 880-3652/5-A	Method Blank	Total/NA	Solid	8021B	3652
LCS 880-3652/1-A	Lab Control Sample	Total/NA	Solid	8021B	3652
LCSD 880-3652/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3652

GC Semi VOA

Prep Batch: 3659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-747-1	PH05	Total/NA	Solid	8015NM Prep	
890-747-2	PH05 A	Total/NA	Solid	8015NM Prep	
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-747-1	PH05	Total/NA	Solid	8015B NM	3659
890-747-2	PH05 A	Total/NA	Solid	8015B NM	3659
MB 880-3659/1-A	Method Blank	Total/NA	Solid	8015B NM	3659
LCS 880-3659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3659
LCSD 880-3659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3659

HPLC/IC

Leach Batch: 3654

Lab Sample ID 890-747-1	Client Sample ID PH05	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-747-2	PH05 A	Soluble	Solid	DI Leach	
MB 880-3654/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-747-1	PH05	Soluble	Solid	300.0	3654
890-747-2	PH05 A	Soluble	Solid	300.0	3654
MB 880-3654/1-A	Method Blank	Soluble	Solid	300.0	3654
LCS 880-3654/2-A	Lab Control Sample	Soluble	Solid	300.0	3654
LCSD 880-3654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3654

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Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-747-1

Project/Site: Christera CTB

SDG: TE012921036

Client Sample ID: PH05

Date Collected: 05/28/21 11:04 Date Received: 05/28/21 13:26 Lab Sample ID: 890-747-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 17:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 21:28	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 16:06	SC	XEN MID

Client Sample ID: PH05 A
Date Collected: 05/28/21 11:06

Date Received: 05/28/21 13:26

Lab Sample ID: 890-747-2

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3652	05/29/21 11:13	KL	XEN MID
Total/NA	Analysis	8021B		1	3653	05/29/21 19:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			3659	05/29/21 12:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1	3662	05/29/21 21:49	AM	XEN MID
Soluble	Leach	DI Leach			3654	05/29/21 11:20	SC	XEN MID
Soluble	Analysis	300.0		1	3660	05/29/21 16:12	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-747-1 Project/Site: Christera CTB SDG: TE012921036

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date					
Texas	NE	NELAP T104704400-20-21 06-							
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for					
the agency does not of		,	ou by the governming dutiestry.	ay molado dilalytoo loi					
the agency does not of Analysis Method		Matrix	Analyte	y modeo analytoo for					
3 ,	fer certification.	,	, , ,						

Method Summary

Client: WSP USA Inc.

Job ID: 890-747-1

Project/Site: Christera CTB

SDG: TE012921036

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Eurofins Xenco, Carlsbad

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PH05 A

Sample Summary

Solid

Client: WSP USA Inc. Project/Site: Christera CTB

890-747-1 890-747-2 Job ID: 890-747-1 SDG: TE012921036

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-747-1	PH05	Solid	05/28/21 11:04	05/28/21 13:26	- 1

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Chain of Custody

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Work Order No:

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Work Order Comments

3 WW (MV (MX) 5:28:21 132 p	Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Re	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. Triese terms will be ellicited unless previously neglet.	sses ar	ctors.	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II II	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn						PH05A s 5/28/2021 11:06 3' 1 x x x	PH05 s 5/28/2021 11:04 11 1 x x x x	Sample Identification Matrix Date Time Depth be EF Children Childr	PA 8	Seals: Yes No N/A Correction Factor: Co 015)	021)	_	SAMPLE RECEIPT Temp Blank: (Yes) No Wet Ice: (Yes) No	Sampler's Name: William Mather Due Date:	P.O. Number: Lea Rush: AHA	Project Number: TE012921036 Routine	Project Name: Chistera CTB Turn Around ANALYSIS REQUEST	Phone: (432) 236-3849 Email: will mather@wsp.com, dan moir@wsp.com Deliverables: ED	City, State ZIP: Midland, Tx 79705 City, State ZIP: Reporting:Level I	Address: 3300 North A Street Address:	Company Name: WSP USA Inc., Permian office Company Name: XTO Energy, Inc.	
	by: (Signature) Received by: (Signature) Date/Time	il de elliotea ulliess hievansiy liegonaran.	sses are due to circumstances beyond the control	ectors. It assigns standard terms and conditions	Mn Mo Ni Se Ag	Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr II Sn U V Zn						Discrete	ā	Sample Comments 6	lab, if received by 4:30pm	TAT starts the day recevied by the	747 Chain of Custody				Cost Center: 2094361001	Incident #: nAPP2107747725	SIS REQUEST Work Order Notes	Deliverables: EDD ADaP1 Other:	Level III ST/UST	l	Program: UST/PST □RP □rownfields □RC ⑤perfund □	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-747-1
SDG Number: TE012921036

List Source: Eurofins Xenco, Carlsbad

Login Number: 747 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-747-1 SDG Number: TE012921036

Login Number: 747 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 05/29/21 11:01 AM

Creator: Kramer, Jessica

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?	N/A	
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	

Eurofins Xenco, Carlsbad

Released to Imaging: 8/10/2021 7:19:56 AM

<6mm (1/4").

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

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

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

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

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

CONDITIONS

Action 30706

CONDITIONS

Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	30706	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/10/2021